Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **0010841**

Product name **WHF HYDRA SHAMPOO /WHF REVITA SHAMPOO**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Mixture for cosmetic use (shampoo)**

1.3. Details of the supplier of the safety data sheet

Name **G.V.F. – GIVIEFFE S.P.A.**

Full address **Via Giovanni Falcone, 8**

District and Country **20080 Vernate (MI)**
Italy

phone 0039 0290093743

fax 0039 0290093740

e-mail address of the competent person responsible for the Safety Data Sheet **sarah.pizzolato@itelyhairfashion.it**

1.4. Emergency telephone number

For urgent inquiries refer to

Available 24 hours/day, 7/7 days:
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726
Az. Osp. Univ. Foggia (Foggia): +39 800183459
Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870
CAV Policlinico "Umberto I" (Roma): +39 0649978000
CAV Policlinico "A. Gemelli" (Roma): +39 063054343
Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819
CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444
Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
European emergency number: 112 (Available 24 hours/day, 7/7 days)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

Hazard classification and indication:

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words:

Hazard statements:

Precautionary statements:

P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Contains:	1-propanamminio, 3-ammino-N-(carbossimetil)-N,N-dimetil-, N-(C8-18(pari) e C18 acile insaturo) deriv., idrossidi, sali interni Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	**x = Conc. %**	**Classification 1272/2008 (CLP)**
Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts CAS 90583-11-2 EC 292-209-0 INDEX - Reg. no. 01-2119519217-42	8 ≤ x < 9	Met. Corr. 1 H290, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts		
CAS 147170-44-3	2 ≤ x < 2,5	Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC 931-333-8		
INDEX -		
Reg. no. 01-2119489410-39		
1-Propanaminium, N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-3-sulfo-, N-coco acyl derivs., hydroxides, inner salts		
CAS 68139-30-0	1,5 ≤ x < 2	Eye Irrit. 2 H319
EC 268-761-3		
INDEX -		
Alcohols, C12-14, ethoxylated		
CAS 68439-50-9	0,35 ≤ x < 0,4	Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412
EC		
INDEX -		
[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene		
CAS 19870-74-7	0,15 ≤ x < 0,2	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 243-384-7		
INDEX -		
Reg. no. 01-2120228335-61		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.
INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,102	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	3,58	mg/kg
Normal value for marine water sediment	0,358	mg/kg
Normal value for water, intermittent release	0,036	mg/l
Normal value of STP microorganisms	1,35	mg/l
Normal value for the terrestrial compartment	0,654	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				24 mg/kg bw/d				
Inhalation				85 mg/m3				285 mg/m3
Skin				2440 mg/kg bw/d				4060 mg/kg bw/d

1-propanamminio, 3-ammino-N-(carbossimetil)-N,N-dimetil-, N-(C8-18(pari) e C18 acile insaturo) deriv., idrossidi, sali interni

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,013	mg/l
Normal value in marine water	0,0013	mg/l
Normal value for fresh water sediment	14,8	mg/kg
Normal value for marine water sediment	1,48	mg/kg
Normal value of STP microorganisms	3000	mg/l
Normal value for the terrestrial compartment	0,8	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				7,5 mg/kg bw/d				
Inhalation				13,04 mg/m3				44 mg/m3
Skin				7,5 mg/kg bw/d				12,5 mg/kg bw/d

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene		
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,43	µg/L
Normal value in marine water	0,043	µg/L
Normal value for fresh water sediment	1,29	mg/kg
Normal value for marine water sediment	0,129	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,257	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
Inhalation				4,7 mg/m3				16,1 mg/m3
Skin			1220 µg/cm²	2,7 mg/kg bw/d			2030 µg/cm²	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid	Method: visual Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C
Colour	Pearly Lilac/ Pearly White	Method: visual
Odour	Not available	
Odour threshold	Not available	
pH	5,20 - 5,80	Method: pH meter METTLER
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	1,02 +/- 0,005 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	7000 - 9000 cps	Method: Brookfield RV S03 - 5RPM – temp. 23° C
Explosive properties	Not explosive	Remark: there aren't components with explosive properties
Oxidising properties	Not oxidising	Remark: there aren't components with oxidising properties

9.2. Other information

VOC: 0,0062 g/mL – 0,62%

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
>2000 mg/kg
LD50 (Dermal) of the mixture:
Not classified (no significant component)

Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts

LD50 (Oral) < 2000 mg/kg EU Method B.1 bis - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

1-propanamminio, 3-ammino-N-(carbossimetil)-N,N-dimetil-, N-(C8-18(pari) e C18 acile insaturo) deriv., idrossidi, sali interni

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

Alcoli, C12-14, etossilati

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

1-propanamminio, N-(3-amminopropil)-2-idrossi-N,N-dimetil-3-solfo, N-coco acile deriv., idrossidi, sali interni

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts

LC50 - for Fish	3,6 mg/l/96h Species: Oncorhynchus mykiss. OECD Guideline 203 - ECHA
EC50 - for Crustacea	4,7 mg/l/48h Species: Daphnia magna. EG-guideline EG/92/69/EWG - ECHA
EC50 - for Algae / Aquatic Plants	11 mg/l/72h Species: Desmodesmus subspicatus. EU Method C.3 - ECHA
EC10 for Algae / Aquatic Plants	2,7 mg/l/72h Species: Desmodesmus subspicatus. EU Method C.3 - ECHA
Chronic NOEC for Fish	> 1,357 mg/l Species: Pimephales promelas - ECHA
Chronic NOEC for Crustacea	0,88 mg/l Species: Ceriodaphnia dubia. Read-across, similar to EPA-600/489/001 - ECHA
Chronic NOEC for Algae / Aquatic Plants	3 mg/l Species: Desmodesmus subspicatus. EU Method C.3 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

1-propanamminio, 3-ammino-N-(carbossimetil)-N,N-dimetil-, N-(C8-18(pari) e C18 acile insaturo) deriv., idrossidi, sali interni

LC50 - for Fish	15 mg/l/96h OECD 203
EC50 - for Crustacea	1,1 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	4,66 mg/l/72h OECD 201
Chronic NOEC for Fish	0,135 mg/l OECD 210
Chronic NOEC for Crustacea	0,32 mg/l OECD 211

Alcoli, C12-14, etossilati

EC50 - for Crustacea	0,53 mg/l/48h EG-Guideline 92/69/EWG - ECHA

1-propanamminio, N-(3-amminopropil)-2-idrossi-N,N-dimetil-3-solfo, N-coco acile deriv., idrossidi, sali interni

EC50 - for Crustacea	11 mg/l/48h OECD Guideline 202 - ECHA

12.2. Persistence and degradability

Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts

Solubility in water	> 330000 mg/l OECD Guideline 105, temp. 20° C - ECHA

Rapidly degradable
OECD Guideline 301 B - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Solubility in water	4,3 mg/l Simile a OECD Guideline 105, temp. 24° C - ECHA

Rapidly degradable
OECD Guideline 301 D - ECHA

1-propanamminio, 3-ammino-N-(carbossimetil)-N,N-dimetil-, N-(C8-18(pari) e C18 acile insaturo) deriv., idrossidi, sali interni

Rapidly degradable
ECHA

Alcoli, C12-14, etossilati

Rapidly degradable
OECD Guideline 301 F - ECHA

1-propanamminio, N-(3-amminopropil)-2-idrossi-N,N-dimetil-3-solfo, N-coco acile deriv., idrossidi, sali interni

Rapidly degradable
OECD Guideline 301 D - ECHA

12.3. Bioaccumulative potential

Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts

Partition coefficient: n-octanol/water	0,8 OECD Guideline 123, temp. 22° C pH 7,1 - 7,6 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Partition coefficient: n-octanol/water	5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA
BCF	1510 L/kg ww QSAR model - ECHA

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H290	May be corrosive to metals.

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
Product`s classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.
The data for evaluation of chemical-physical properties are reported in section 9.

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **0010842**

Product name **WHF VOLUME SHAMPOO**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Mixture for cosmetic us (shampoo)**

1.3. Details of the supplier of the safety data sheet

Name **G.V.F. – GIVIEFFE S.P.A.**

Full address **Via Giovanni Falcone, 8**

District and Country **20080 Vernate (MI)**
Italy

phone 0039 0290093743

fax 0039 0290093740

e-mail address of the competent person

responsible for the Safety Data Sheet **sarah.pizzolato@itelyhairfashion.it**

1.4. Emergency telephone number

For urgent inquiries refer to **Available 24 hours/day, 7/7 days:**
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726
Az. Osp. Univ. Foggia (Foggia): +39 800183459
Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870
CAV Policlinico "Umberto I" (Roma): +39 0649978000
CAV Policlinico "A. Gemelli" (Roma): +39 063054343
Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819
CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444
Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
European emergency number: 112 (Available 24 hours/day, 7/7 days)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

2.2. Label elements

Hazard pictograms:

Signal words:

Hazard statements:

Precautionary statements:

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
Contains:	Alcohols, C12-14, ethoxylated, sulfates, sodium salts Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	**x = Conc. %**	**Classification 1272/2008 (CLP)**
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS 68891-38-3 EC 500-234-8 INDEX - Reg. no. 01-2119488639-16	8 ≤ x < 9	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412

Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine

CAS 90583-18-9 | 3,5 ≤ x < 4 | Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412

EC 939-265-0

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Reg. no. 01-2119970645-28

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

CAS 147170-44-3 | 2 ≤ x < 2,5 | Eye Dam. 1 H318, Aquatic Chronic 3 H412

EC 931-333-8

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Reg. no. 01-2119489410-39-0001

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

CAS 19870-74-7 | 0,15 ≤ x < 0,2 | Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 243-384-7

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Reg. no. 01-2120228335-61

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.
INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,24	mg/l
Normal value in marine water	0,024	mg/l
Normal value for fresh water sediment	0,917	mg/kg
Normal value for marine water sediment	0,092	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	7,5	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				15 mg/kg bw/d				
Inhalation				52 mg/m3				175 mg/m3
Skin			79 µg/cm²	1650 mg/kg bw/d			132 µg/cm²	2750 mg/kg bw/d

Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,012	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,422	mg/kg
Normal value for marine water sediment	0,042	mg/kg
Normal value for water, intermittent release	0,036	mg/l
Normal value of STP microorganisms	1,35	mg/l
Normal value for the terrestrial compartment	0,083	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				24 mg/kg bw/d				
Inhalation				85 mg/m3				285 mg/m3
Skin				2440 mg/kg bw/d				4060 mg/kg bw/d

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,013	mg/l
Normal value in marine water	0,0013	mg/l
Normal value for fresh water sediment	14,8	mg/kg
Normal value for marine water sediment	1,48	mg/kg
Normal value of STP microorganisms	3000	mg/l
Normal value for the terrestrial compartment	0,8	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				7,5 mg/kg bw/d				
Inhalation				13,04 mg/m3				44 mg/m3
Skin				7,5 mg/kg bw/d				12,5 mg/kg bw/d

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,43	µg/L
Normal value in marine water	0,043	µg/L
Normal value for fresh water sediment	1,29	mg/kg
Normal value for marine water sediment	0,129	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,257	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
Inhalation				4,7 mg/m3				16,1 mg/m3
Skin			1220 µg/cm²	2,7 mg/kg bw/d			2030 µg/cm²	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid	Method: visual Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C
Colour	Light Blue	Method: visual
Odour	Not available	
Odour threshold	Not available	
pH	5,20 - 5,80	Method: pHmetro Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	1,02 +/- 0.005 g/ml	Method: Picnometer
Solubility	Not available	

Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	7000 - 9000 cps	Method: Brookfield RV S03 - 5RPM – 23°C
Explosive properties	Not explosive	Remark: there aren't components with explosive properties
Oxidising properties	Not oxidising	Remark: there aren't components with oxidising properties

9.2. Other information

VOC: 0,00082 g/mL – 0,082%

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
>2000 mg/kg
LD50 (Dermal) of the mixture:
Not classified (no significant component)

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine

LD50 (Oral) < 2000 mg/kg Read-across EU Method B.1 bis - ECHA

LD50 (Dermal) > 2000 mg/kg Read-across, OECD Guideline 402 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Alcohols, C12-14, ethoxylated, sulfates, sodium salts	
LC50 - for Fish	7,1 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	7,4 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	27,7 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	4,4 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,2 mg/l Species: Oncorhynchus mykiss. OECD Guideline 204 - ECHA
Chronic NOEC for Crustacea	0,27 mg/l Species: Daphnia magna. Simile a OECD Guideline 211 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,95 mg/l Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA

Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine	
LC50 - for Fish	3,6 mg/l/96h Species: Oncorhynchus mykiss. OECD Guideline 203 - ECHA
EC50 - for Crustacea	7,1 mg/l/48h Species: Daphnia magna. Similar to OECD Guideline 202 - ECHA

EC50 - for Algae / Aquatic Plants	9,3 mg/l/72h Species: Desmodesmus subspicatus. EU Method C.3 - ECHA
EC10 for Algae / Aquatic Plants	2,7 mg/l/72h Species: Desmodesmus subspicatus. EU Method C.3 - ECHA
Chronic NOEC for Fish	> 1,357 mg/l Read-across - ECHA
Chronic NOEC for Crustacea	0,88 mg/l Similar to EPA-600/489/001 - ECHA
Chronic NOEC for Algae / Aquatic Plants	3 mg/l Species: Desmodesmus subspicatus. EU Method C.3 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

LC50 - for Fish	15 mg/l/96h OECD 203
EC50 - for Crustacea	1,1 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	4,66 mg/l/72h OECD 201
Chronic NOEC for Fish	0,135 mg/l OECD 210
Chronic NOEC for Crustacea	0,32 mg/l OECD 211

12.2. Persistence and degradability

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Solubility in water	280000 mg/l Temp. 20° C pH 6,8 - ECHA

Rapidly degradable
Danish EPA - HERA

Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine

Solubility in water	> 500000 mg/l EU Method A.6, temp. 20° C, pH 6,6 - ECHA

Rapidly degradable
Simile a EU Method C.4-A - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Solubility in water	4,3 mg/l Simile a OECD Guideline 105, temp. 24° C - ECHA

Rapidly degradable
OECD Guideline 301 D - ECHA

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

Rapidly degradable
ECHA

12.3. Bioaccumulative potential

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Partition coefficient: n-octanol/water	0,3 OECD Guideline 123, temp. 23° C pH 6,1 - ECHA

Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine

Partition coefficient: n-octanol/water	< -0,866 Computational Approach in OECD Guideline 107, temp. 20° C - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Partition coefficient: n-octanol/water	5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA
BCF	1510 L/kg ww QSAR model - ECHA

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament

5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product`s classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **0010843**

Product name **WHF REVITA MASK**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Mixture for cosmetic use**

1.3. Details of the supplier of the safety data sheet

Name **G.V.F. – GIVIEFFE S.P.A.**

Full address **Via Giovanni Falcone, 8**

District and Country **20080 Vernate (MI)**
Italy

phone 0039 0290093743

fax 0039 0290093740

e-mail address of the competent person

responsible for the Safety Data Sheet **sarah.pizzolato@itelyhairfashion.it**

1.4. Emergency telephone number

For urgent inquiries refer to **Available 24 hours/day, 7/7 days:**
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726
Az. Osp. Univ. Foggia (Foggia): +39 800183459
Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870
CAV Policlinico "Umberto I" (Roma): +39 0649978000
CAV Policlinico "A. Gemelli" (Roma): +39 063054343
Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819
CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444
Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
European emergency number: 112 (Available 24 hours/day, 7/7 days)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

Precautionary statements:

P273 Avoid release to the environment.

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Alcohols, C16-18, ethoxylated		
CAS 68439-49-6	0,1 ≤ x < 2	Eye Irrit. 2 H319
EC 500-212-8		
INDEX -		
Tetradecanol		
CAS 112-72-1	0,1 ≤ x < 1	Eye Irrit. 2 H319, Aquatic Chronic 1 H410 M=1
EC 204-000-3		
INDEX -		
Reg. no. 01-2119485910-33-0000		
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides		
CAS 68607-24-9	0,1 ≤ x < 0,9	STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 271-756-9		
INDEX -		
Reg. no. 01-2119484817-22		
Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides		
CAS 68391-05-9	0,1 ≤ x < 0,6	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 269-924-1		
INDEX -		

Cetrimonium chloride

CAS 112-02-7 EC 203-928-6 INDEX - Reg. no. 01-2119970558-23	0,01 ≤ x < 0,25	Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

CAS 19870-74-7 EC 243-384-7 INDEX - Reg. no. 01-2120228335-61	0,01 ≤ x < 0,2	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Tetradecanol

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,00032	mg/l
Normal value in marine water	0,000032	mg/l
Normal value for fresh water sediment	0,36	mg/kg
Normal value for marine water sediment	0,036	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		75 mg/kg bw/d		75 mg/kg bw/d				
Inhalation		65 mg/m3		65 mg/m3		220 mg/m3		220 mg/m3
Skin		75 mg/kg bw/d		75 mg/kg bw/d		125 mg/kg bw/d		125 mg/kg bw/d

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Predicted no-effect concentration - PNEC		
Normal value in fresh water	13	µg/L
Normal value in marine water	1,3	µg/L
Normal value for fresh water sediment	1,25	mg/kg
Normal value for marine water sediment	125	µg/kg
Normal value for water, intermittent release	14	µg/L
Normal value of STP microorganisms	430	µg/L
Normal value for the food chain (secondary poisoning)	6,7	mg/kg
Normal value for the terrestrial compartment	1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								0,49 mg/m3
Skin								1,7 mg/kg bw/d

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,013	mg/l
Normal value in marine water	0,0013	mg/l
Normal value for fresh water sediment	8,8	mg/kg
Normal value for marine water sediment	0,88	mg/kg
Normal value for water, intermittent release	0,0026	mg/l
Normal value of STP microorganisms	1,2	mg/l
Normal value for the terrestrial compartment	7	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,3 mg/kg bw/d				
Inhalation								27 mg/m3
Skin				7,65 mg/kg bw/d				12,75 mg/kg bw/d

Cetrimonium chloride

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,001	mg/l
Normal value in marine water	0	mg/l
Normal value for fresh water sediment	9,27	mg/kg
Normal value for marine water sediment	0,927	mg/kg
Normal value for water, intermittent release	0,001	mg/l
Normal value of STP microorganisms	0,4	mg/l
Normal value for the terrestrial compartment	7	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,83 mg/kg bw/d				
Inhalation				0,98 mg/m3				3,32 mg/m3
Skin				2,83 mg/kg bw/d				4,7 mg/kg bw/d

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,43	µg/L
Normal value in marine water	0,043	µg/L
Normal value for fresh water sediment	1,29	mg/kg
Normal value for marine water sediment	0,129	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,257	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
Inhalation				4,7 mg/m3				16,1 mg/m3
Skin			1220 µg/cm²	2,7 mg/kg bw/d			2030 µg/cm²	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that at the workplace is well aired through effective local aspiration

When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous emulsion	Method: visual Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C
Colour	White	Method: visual
Odour	Not available	
Odour threshold	Not available	
pH	4,00 - 4,50	Method: pHmeter Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60° C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties

Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	Not available	
Density	0,94 +/- 0,02 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	80000 - 120000 cps	Method: Brookfield RV HS93 – 5 RPM Temperature: 23° C
Explosive properties	Not applicable	Remark: there aren't components with explosive properties
Oxidising properties	Not applicable	Remark: there aren't components with oxidising properties

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological

effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
Not classified (no significant component)
LD50 (Dermal) of the mixture:
>2000 mg/kg

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LD50 (Oral) > 2000 mg/kg Similar to OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg Read-across EPA OPPTS 870.1200 - ECHA

Cetrimonium chloride

LD50 (Oral) 699 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) 528 mg/kg OECD Guideline 402 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides

LD50 (Oral) 690 mg/kg OECD Guideline 401 - ECHA

Alcohols, C16-18, ethoxylated

LD50 (Oral) > 2000 mg/kg

Tetradecanol

LD50 (Oral) > 2000 mg/kg OECD 401

LD50 (Dermal) > 2000 mg/kg rabbit

LC50 (Inhalation) 1,05 mg/l/1h rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LC50 - for Fish	3,48 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	1,39 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	3,48 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,78 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,24 mg/l Species: Danio rerio. OECD Guideline 212, duration 9 days - ECHA
Chronic NOEC for Crustacea	0,128 mg/l Species: Daphnia magna. OECD Guideline 211 - ECHA

Cetrimonium chloride

LC50 - for Fish	> 0,59 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,09 mg/l/48h Species: Daphnia magna, Read-across, similar to OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	0,13 mg/l/72h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,104 mg/l/96h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,0322 mg/l Species: Pimephales promelas. U.S. EPA FIFRA 72-4(a) - ECHA
Chronic NOEC for Crustacea	0,0068 mg/l Species: Daphnia magna. Read-across, similar to OECD Guideline 211 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides

LC50 - for Fish	0,26 mg/l/96h ECHA

Tetradecanol

LC50 - for Fish	> 1 mg/l/96h OECD 203 - ECHA
Chronic NOEC for Crustacea	0,006 mg/l OECD Guideline 211 - ECHA

12.2. Persistence and degradability

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Solubility in water	10 mg/l ISO 4311, temp. 25° C pH 5,4 - ECHA

Rapidly degradable
OECD Guideline 301 B - ECHA

Cetrimonium chloride

Solubility in water	240 mg/l Temp. 25° C pH 7 - ECHA

Rapidly degradable
OECD Guideline 301 B - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Solubility in water	4,3 mg/l Similar to OECD Guideline 105, temp. 24° C - ECHA

Rapidly degradable
OECD Guideline 301 D - ECHA

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides

Rapidly degradable
OECD guideline 301D - ECHA

Tetradecanol

Rapidly degradable

12.3. Bioaccumulative potential

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Partition coefficient: n-octanol/water	3,29 Calculation method, temp. 20° C pH 5,4 - ECHA

Cetrimonium chloride

Partition coefficient: n-octanol/water	3,08 Temp. 25° C - ECHA
BCF	79 Read-across, EPA OPP 165-4 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Partition coefficient: n-octanol/water	5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA
BCF	1510 L/kg ww QSAR model - ECHA

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition

- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
Product`s classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.
The data for evaluation of chemical-physical properties are reported in section 9.

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **0010844**

Product name **WHF HYDRA MASK**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Mixture for cosmetic use**

1.3. Details of the supplier of the safety data sheet

Name **G.V.F. – GIVIEFFE S.P.A.**

Full address **Via Giovanni Falcone, 8**

District and Country **20080 Vernate (MI)**
Italy

phone 0039 0290093743

fax 0039 0290093740

e-mail address of the competent person

responsible for the Safety Data Sheet **sarah.pizzolato@itelyhairfashion.it**

1.4. Emergency telephone number

For urgent inquiries refer to **Available 24 hours/day, 7/7 days:**
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726
Az. Osp. Univ. Foggia (Foggia): +39 800183459
Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870
CAV Policlinico "Umberto I" (Roma): +39 0649978000
CAV Policlinico "A. Gemelli" (Roma): +39 063054343
Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819
CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444
Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
European emergency number: 112 (Available 24 hours/day, 7/7 days)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

2.2. Label elements

Hazard pictograms: --

Signal words: --

Hazard statements:

Precautionary statements:

P273 Avoid release to the environment.

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Alcohols, C16-18, ethoxylated		
CAS 68439-49-6	0,1 ≤ x < 2,5	Eye Irrit. 2 H319
EC 500-212-8		
INDEX -		
Tetradecanol		
CAS 112-72-1	0,1 ≤ x < 1	Eye Irrit. 2 H319, Aquatic Chronic 1 H410 M=1
EC 204-000-3		
INDEX -		
Reg. no. 01-2119485910-33-0000		
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides		
CAS 68607-24-9	0,1 ≤ x < 0,9	STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 271-756-9		
INDEX -		
Reg. no. 01-2119484817-22		
Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides		
CAS 68391-05-9	0,1 ≤ x < 0,6	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 269-924-1		
INDEX -		

Cetrimonium chloride CAS 112-02-7 EC 203-928-6 INDEX - Reg. no. 01-2119970558-23	0,01 ≤ x < 0,5	Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1
[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene CAS 19870-74-7 EC 243-384-7 INDEX - Reg. no. 01-2120228335-61	0,01 ≤ x < 0,2	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Tetradecanol

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,00032	mg/l
Normal value in marine water	0,000032	mg/l
Normal value for fresh water sediment	0,36	mg/kg
Normal value for marine water sediment	0,036	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		75 mg/kg bw/d		75 mg/kg bw/d				
Inhalation		65 mg/m3		65 mg/m3		220 mg/m3		220 mg/m3
Skin		75 mg/kg bw/d		75 mg/kg bw/d		125 mg/kg bw/d		125 mg/kg bw/d

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Predicted no-effect concentration - PNEC		
Normal value in fresh water	13	µg/L
Normal value in marine water	1,3	µg/L
Normal value for fresh water sediment	1,25	mg/kg
Normal value for marine water sediment	125	µg/kg
Normal value for water, intermittent release	14	µg/L
Normal value of STP microorganisms	430	µg/L
Normal value for the food chain (secondary poisoning)	6,7	mg/kg
Normal value for the terrestrial compartment	1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								0,49 mg/m3
Skin								1,7 mg/kg bw/d

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,013	mg/l
Normal value in marine water	0,0013	mg/l
Normal value for fresh water sediment	8,8	mg/kg
Normal value for marine water sediment	0,88	mg/kg
Normal value for water, intermittent release	0,0026	mg/l
Normal value of STP microorganisms	1,2	mg/l
Normal value for the terrestrial compartment	7	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,3 mg/kg bw/d				
Inhalation								27 mg/m3
Skin				7,65 mg/kg bw/d				12,75 mg/kg bw/d

Cetrimonium chloride

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,001	mg/l
Normal value in marine water	0	mg/l
Normal value for fresh water sediment	9,27	mg/kg
Normal value for marine water sediment	0,927	mg/kg
Normal value for water, intermittent release	0,001	mg/l
Normal value of STP microorganisms	0,4	mg/l
Normal value for the terrestrial compartment	7	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,83 mg/kg bw/d				
Inhalation				0,98 mg/m3				3,32 mg/m3
Skin				2,83 mg/kg bw/d				4,7 mg/kg bw/d

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,43	µg/L
Normal value in marine water	0,043	µg/L
Normal value for fresh water sediment	1,29	mg/kg
Normal value for marine water sediment	0,129	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,257	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
Inhalation				4,7 mg/m3				16,1 mg/m3
Skin			1220 µg/cm²	2,7 mg/kg bw/d			2030 µg/cm²	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that at the workplace is well aired through effective local aspiration

When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous emulsion	Method: visual Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C
Colour	White	Method: visual
Odour	Not available	
Odour threshold	Not available	
pH	3,50 - 4,50	Method: pHmeter Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60° C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties

Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	Not available	
Density	0,94 +/- 0,02 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	80000 - 120000 cps	Method: Brookfield RV HS93 – 5 RPM Temperature: 23° C
Explosive properties	Not applicable	Remark: there aren't components with explosive properties
Oxidising properties	Not applicable	Remark: there aren't components with oxidising properties

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological

effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
Not classified (no significant component)
LD50 (Dermal) of the mixture:
>2000 mg/kg

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LD50 (Oral) > 2000 mg/kg Similar to OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg Read-across EPA OPPTS 870.1200 - ECHA

Cetrimonium chloride

LD50 (Oral) 699 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) 528 mg/kg OECD Guideline 402 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides

LD50 (Oral) 690 mg/kg OECD Guideline 401 - ECHA

Alcohols, C16-18, ethoxylated

LD50 (Oral) > 2000 mg/kg

Tetradecanol

LD50 (Oral) > 2000 mg/kg OECD 401

LD50 (Dermal) > 2000 mg/kg rabbit

LC50 (Inhalation) 1,05 mg/l/1h rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LC50 - for Fish	3,48 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	1,39 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	3,48 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,78 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,24 mg/l Species: Danio rerio. OECD Guideline 212, duration 9 days - ECHA
Chronic NOEC for Crustacea	0,128 mg/l Species: Daphnia magna. OECD Guideline 211 - ECHA

Cetrimonium chloride

LC50 - for Fish	> 0,59 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,09 mg/l/48h Species: Daphnia magna, Read-across, similar to OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	0,13 mg/l/72h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,104 mg/l/96h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,0322 mg/l Species: Pimephales promelas. U.S. EPA FIFRA 72-4(a) - ECHA
Chronic NOEC for Crustacea	0,0068 mg/l Species: Daphnia magna. Read-across, similar to OECD Guideline 211 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides

LC50 - for Fish	0,26 mg/l/96h ECHA

Tetradecanol

LC50 - for Fish	> 1 mg/l/96h OECD 203 - ECHA
Chronic NOEC for Crustacea	0,006 mg/l OECD Guideline 211 - ECHA

12.2. Persistence and degradability

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Solubility in water	10 mg/l ISO 4311, temp. 25° C pH 5,4 - ECHA

Rapidly degradable
OECD Guideline 301 B - ECHA

Cetrimonium chloride

Solubility in water	240 mg/l Temp. 25° C pH 7 - ECHA

Rapidly degradable
OECD Guideline 301 B - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Solubility in water	4,3 mg/l Similar to OECD Guideline 105, temp. 24° C - ECHA

Rapidly degradable
OECD Guideline 301 D - ECHA

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides

Rapidly degradable
OECD guideline 301D - ECHA

Tetradecanol

Rapidly degradable

12.3. Bioaccumulative potential

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Partition coefficient: n-octanol/water	3,29 Calculation method, temp. 20° C pH 5,4 - ECHA

Cetrimonium chloride

Partition coefficient: n-octanol/water	3,08 Temp. 25° C - ECHA
BCF	79 Read-across, EPA OPP 165-4 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Partition coefficient: n-octanol/water	5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA
BCF	1510 L/kg ww QSAR model - ECHA

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament

11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
Product`s classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.
The data for evaluation of chemical-physical properties are reported in section 9.

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **0010845**

Product name **AMPLIFICO HYDRA MASK**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Mixture for cosmetic use**

1.3. Details of the supplier of the safety data sheet

Name **G.V.F. – GIVIEFFE S.P.A.**

Full address **Via Giovanni Falcone, 8**

District and Country **20080 Vernate (MI)**
Italy

phone 0039 0290093743

fax 0039 0290093740

e-mail address of the competent person

responsible for the Safety Data Sheet **sarah.pizzolato@itelyhairfashion.it**

1.4. Emergency telephone number

For urgent inquiries refer to **Available 24 hours/day, 7/7 days:**
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726
Az. Osp. Univ. Foggia (Foggia): +39 800183459
Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870
CAV Policlinico "Umberto I" (Roma): +39 0649978000
CAV Policlinico "A. Gemelli" (Roma): +39 063054343
Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819
CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444
Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
European emergency number: 112 (Available 24 hours/day, 7/7 days)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words:

Hazard statements:

Precautionary statements:

P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Contains:	Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides		
CAS 68607-24-9	3 ≤ x < 3,5	STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 271-756-9		
INDEX -		
Reg. no. 01-2119484817-22		
Dimethylsiloxane, polymer, (((3-((2-aminoethyl)amino)propyl)-dimethoxysilyl)oxy)-terminated		
CAS 71750-80-6	1 ≤ x < 1,5	Eye Irrit. 2 H319
EC 615-337-4		
INDEX -		

Cetrimonium chloride

CAS 112-02-7	0,2 ≤ x < 0,25	Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1
EC 203-928-6		
INDEX -		
Reg. no. 01-2119970558-23-0000		

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

CAS 19870-74-7	0,1 ≤ x < 0,15	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 243-384-7		
INDEX -		
Reg. no. 01-2120228335-61		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.
INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Predicted no-effect concentration - PNEC		
Normal value in fresh water	13	µg/L
Normal value in marine water	1,3	µg/L
Normal value for fresh water sediment	1,25	mg/kg
Normal value for marine water sediment	125	µg/kg
Normal value for water, intermittent release	14	µg/L
Normal value of STP microorganisms	430	µg/L
Normal value for the food chain (secondary poisoning)	6,7	mg/kg
Normal value for the terrestrial compartment	1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								0,49 mg/m3
Skin								1,7 mg/kg bw/d

Cetrimonium chloride

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,00068	mg/l
Normal value in marine water	0,000068	mg/l
Normal value for fresh water sediment	9,27	mg/kg
Normal value for marine water sediment	0,927	mg/kg
Normal value for water, intermittent release	0,0008	mg/l
Normal value of STP microorganisms	0,4	mg/l

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,83 mg/kg/d				
Inhalation				0,98 mg/m3				3,32 mg/m3
Skin				2,83 mg/kg/d				4,7 mg/kg/d

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,43	µg/L
Normal value in marine water	0,043	µg/L
Normal value for fresh water sediment	1,29	mg/kg
Normal value for marine water sediment	0,129	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,257	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
Inhalation				4,7 mg/m3				16,1 mg/m3
Skin			1220 µg/cm²	2,7 mg/kg bw/d			2030 µg/cm²	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous emulsion	Method: visual

		Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C
Colour	White	Method: visual
Odour	Floral - fresh - fruity - musk	Method: olfactory
Odour threshold	Not available	
pH	3,80 - 4,60	Method: pHmetro Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	0,95 +/- 0,02 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	20000 - 40000 cps	Method: Brookfield RV S06 - 5RPM Temperature: 23° C
Explosive properties	Not explosive	Remark: there aren't components with explosive properties
Oxidising properties	Not oxidising	Remark: there aren't components with oxidising properties

9.2. Other information

VOC: 0,03 g/mL – 3,01%

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
Not classified (no significant component)
LD50 (Dermal) of the mixture:
>2000 mg/kg

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LD50 (Oral) > 2000 mg/kg Similar to OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg Read-across EPA OPPTS 870.1200 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

Cetrimonium chloride

LD50 (Oral) 1550 mg/kg rat OECD 401

LD50 (Dermal) 528 mg/kg OECD 402

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LC50 - for Fish	3,48 mg/l/96h Specie: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	1,39 mg/l/48h Specie: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	3,48 mg/l/72h Specie: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,78 mg/l/72h Specie: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,24 mg/l Specie: Danio rerio. OECD Guideline 212, duration 9 days - ECHA
Chronic NOEC for Crustacea	0,128 mg/l Specie: Daphnia magna. OECD Guideline 211 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

LC50 - for Fish	0,43 mg/l/96h Specie: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Specie: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Specie: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Specie: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Specie: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

Cetrimonium chloride

LC50 - for Fish	> 0,7 mg/l/96h barbo zebrato, OECD 203
EC50 - for Crustacea	0,09 mg/l/48h Daphnia magna, OECD 202

12.2. Persistence and degradability

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Solubility in water	10 mg/l ISO 4311, temp. 25° C pH 5,4 - ECHA

Rapidly degradable
OECD Guideline 301 B - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Solubility in water	4,3 mg/l Similar to OECD Guideline 105, temp. 24° C - ECHA

Rapidly degradable
OECD Guideline 301 D - ECHA

Cetrimonium chloride

Rapidly degradable

12.3. Bioaccumulative potential

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Partition coefficient: n-octanol/water	3,29 Calculation method, temp. 20° C pH 5,4 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Partition coefficient: n-octanol/water	5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA

BCF	1510 L/kg ww QSAR model - ECHA
Cetrimonium chloride	
Partition coefficient: n-octanol/water	< 4

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
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Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train

- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product`s classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **0010846**

Product name **WHF AMPLIFICO REVITA MASK**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Mixture for cosmetic use**

1.3. Details of the supplier of the safety data sheet

Name **G.V.F. – GIVIEFFE S.P.A.**

Full address **Via Giovanni Falcone, 8**

District and Country **20080 Vernate (MI)**
Italy

phone 0039 0290093743

fax 0039 0290093740

e-mail address of the competent person responsible for the Safety Data Sheet **sarah.pizzolato@itelyhairfashion.it**

1.4. Emergency telephone number

For urgent inquiries refer to

Available 24 hours/day, 7/7 days:
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726
Az. Osp. Univ. Foggia (Foggia): +39 800183459
Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870
CAV Policlinico "Umberto I" (Roma): +39 0649978000
CAV Policlinico "A. Gemelli" (Roma): +39 063054343
Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819
CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444
Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
European emergency number: 112 (Available 24 hours/day, 7/7 days)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

2.2. Label elements

Hazard pictograms:

Signal words:

Hazard statements:

Precautionary statements:

P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
Contains:	Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	**x = Conc. %**	**Classification 1272/2008 (CLP)**
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides		
CAS 68607-24-9	3 ≤ x < 3,5	STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 271-756-9		
INDEX -		
Reg. no. 01-2119484817-22		
Dimethylsiloxane, polymer, (((3-((2-aminoethyl)amino)propyl)-dimethoxysilyl)oxy)-terminated		
CAS 71750-80-6	2 ≤ x < 2,5	Eye Irrit. 2 H319
EC 615-337-4		
INDEX -		

Cetrimonium chloride		
CAS 112-02-7	0,35 ≤ x < 0,4	Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1
EC 203-928-6		
INDEX -		
Reg. no. 01-2119970558-23		
[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene		
CAS 19870-74-7	0,1 ≤ x < 0,15	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 243-384-7		
INDEX -		
Reg. no. 01-2120228335-61		
Cetrimonium chloride		
CAS 112-02-7	0,1 ≤ x < 0,15	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1
EC 203-928-6		
INDEX -		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.
INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Predicted no-effect concentration - PNEC		
Normal value in fresh water	13	µg/L
Normal value in marine water	1,3	µg/L
Normal value for fresh water sediment	1,25	mg/kg
Normal value for marine water sediment	125	µg/kg
Normal value for water, intermittent release	14	µg/L
Normal value of STP microorganisms	430	µg/L
Normal value for the food chain (secondary poisoning)	6,7	mg/kg
Normal value for the terrestrial compartment	1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								0,49 mg/m3
Skin								1,7 mg/kg bw/d

Cetrimonium chloride

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,001	mg/l
Normal value in marine water	0	mg/l
Normal value for fresh water sediment	9,27	mg/kg
Normal value for marine water sediment	0,927	mg/kg
Normal value for water, intermittent release	0,001	mg/l
Normal value of STP microorganisms	0,4	mg/l
Normal value for the terrestrial compartment	7	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,83 mg/kg bw/d				
Inhalation				0,98 mg/m3				3,32 mg/m3
Skin				2,83 mg/kg bw/d				4,7 mg/kg bw/d

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,43	µg/L
Normal value in marine water	0,043	µg/L
Normal value for fresh water sediment	1,29	mg/kg
Normal value for marine water sediment	0,129	mg/kg
Normal value of STP microorganisms	100	mg/l

Normal value for the terrestrial compartment	0,257	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
Inhalation				4,7 mg/m3				16,1 mg/m3
Skin			1220 µg/cm²	2,7 mg/kg bw/d			2030 µg/cm²	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous emulsion	Method: visual Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C
Colour	White	Method: visual
Odour	Floral - fresh - fruity - musk	Method: olfactory
Odour threshold	Not available	
pH	3,80 - 4,60	Method: pHmetro Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	0,95 +/- 0,02 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	20000 - 40000 cps	Method: Brookfield RV S06 - 5RPM Temperature: 23° C
Explosive properties	Not explosive	Remark: there aren't components with explosive properties
Oxidising properties	Not oxidising	Remark: there aren't components with oxidising properties

9.2. Other information

VOC: 0,0349 g/mL – 3,499%

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
Not classified (no significant component)
LD50 (Dermal) of the mixture:
>2000 mg/kg

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LD50 (Oral) > 2000 mg/kg Similar to OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg Read-across EPA OPPTS 870.1200 - ECHA

Cetrimonium chloride

LD50 (Oral) 699 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) 528 mg/kg OECD Guideline 402 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LC50 - for Fish	3,48 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	1,39 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	3,48 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,78 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,24 mg/l Species: Danio rerio. OECD Guideline 212, duration 9 days - ECHA
Chronic NOEC for Crustacea	0,128 mg/l Species: Daphnia magna. OECD Guideline 211 - ECHA

Cetrimonium chloride

LC50 - for Fish	> 0,59 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,09 mg/l/48h Species: Daphnia magna, Read-across, similar to OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	0,13 mg/l/72h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,104 mg/l/96h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,0322 mg/l Species: Pimephales promelas. U.S. EPA FIFRA 72-4(a) - ECHA
Chronic NOEC for Crustacea	0,0068 mg/l Species: Daphnia magna. Read-across, similar to OECD Guideline 211 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

12.2. Persistence and degradability

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Solubility in water	10 mg/l ISO 4311, temp. 25° C pH 5,4 - ECHA
Rapidly degradable OECD Guideline 301 B - ECHA	

Cetrimonium chloride

Solubility in water	240 mg/l Temp. 25° C pH 7 - ECHA
Rapidly degradable OECD Guideline 301 B - ECHA	

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Solubility in water	4,3 mg/l Similar to OECD Guideline 105, temp. 24° C - ECHA

Rapidly degradable
OECD Guideline 301 D - ECHA

12.3. Bioaccumulative potential

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Partition coefficient: n-octanol/water	3,29 Calculation method, temp. 20° C pH 5,4 - ECHA

Cetrimonium chloride

Partition coefficient: n-octanol/water	3,08 Temp. 25° C - ECHA
BCF	79 Read-across, EPA OPP 165-4 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Partition coefficient: n-octanol/water	5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA
BCF	1510 L/kg ww QSAR model - ECHA

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008

- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product`s classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **0010847**

Product name **WHF VOLUME CONDITIONER MOUSSE**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Mixture for cosmetic use**

1.3. Details of the supplier of the safety data sheet

Name **G.V.F. – GIVIEFFE S.P.A.**

Full address **Via Giovanni Falcone, 8**

District and Country **20080 Vernate (MI)**
Italy

phone 0039 0290093743

fax 0039 0290093740

e-mail address of the competent person

responsible for the Safety Data Sheet **sarah.pizzolato@itelyhairfashion.it**

1.4. Emergency telephone number

For urgent inquiries refer to **Available 24 hours/day, 7/7 days:**
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726
Az. Osp. Univ. Foggia (Foggia): +39 800183459
Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870
CAV Policlinico "Umberto I" (Roma): +39 0649978000
CAV Policlinico "A. Gemelli" (Roma): +39 063054343
Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819
CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444
Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
European emergency number: 112 (Available 24 hours/day, 7/7 days)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.
The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

Hazard classification and indication:

2.2. Label elements

Hazard pictograms:

Signal words:

Hazard statements:

Precautionary statements:

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves, eye protection and face protection.
P302+P352	IF ON SKIN: wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice / attention.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	**x = Conc. %**	**Classification 1272/2008 (CLP)**
Cetrimonium chloride		
CAS 112-02-7 EC 203-928-6 INDEX - Reg. no. 01-2119970558-23	1 ≤ x < 1,5	Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts		
CAS 147170-44-3 EC 931-333-8 INDEX - Reg. no. 01-2119489410-39-0001	1 ≤ x < 1,5	Eye Dam. 1 H318, Aquatic Chronic 3 H412

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Cetrimonium chloride

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,001	mg/l
Normal value in marine water	0	mg/l
Normal value for fresh water sediment	9,27	mg/kg
Normal value for marine water sediment	0,927	mg/kg
Normal value for water, intermittent release	0,001	mg/l
Normal value of STP microorganisms	0,4	mg/l
Normal value for the terrestrial compartment	7	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,83 mg/kg bw/d				

Inhalation				0,98 mg/m3				3,32 mg/m3
Skin				2,83 mg/kg bw/d				4,7 mg/kg bw/d

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,013	mg/l
Normal value in marine water	0,0013	mg/l
Normal value for fresh water sediment	14,8	mg/kg
Normal value for marine water sediment	1,48	mg/kg
Normal value of STP microorganisms	3000	mg/l
Normal value for the terrestrial compartment	0,8	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				7,5 mg/kg bw/d				
Inhalation				13,04 mg/m3				44 mg/m3
Skin				7,5 mg/kg bw/d				12,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid	Method: visual Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C
Colour	Colourless	Method: visual
Odour	Floral - fresh - fruity - musk	Method: olfactory
Odour threshold	Not available	
pH	4,30 - 4,80	Method: pHmeter Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	Not available	
Density	1 +/- 0,02 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
Explosive properties	Not explosive	Remark: there aren't components with explosive properties
Oxidising properties	Not oxidising	Remark: there aren't components with oxidising properties

9.2. Other information

VOC: 0,0301 g/mL – 3,015%

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
>2000 mg/kg

LD50 (Dermal) of the mixture:
>2000 mg/kg

Cetrimonium chloride

LD50 (Oral) 699 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) 528 mg/kg OECD Guideline 402 - ECHA

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

LD50 (Oral) > 2000 mg/kg Species: rat. Similar to OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg Species: rat. OECD Guideline 402 - ECHA

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Cetrimonium chloride	
LC50 - for Fish	> 0,59 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,09 mg/l/48h Species: Daphnia magna, Read-across, similar to OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	0,13 mg/l/72h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,104 mg/l/96h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,0322 mg/l Species: Pimephales promelas. U.S. EPA FIFRA 72-4(a) - ECHA
Chronic NOEC for Crustacea	0,0068 mg/l Species: Daphnia magna. Read-across, similar to OECD Guideline 211 - ECHA
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	
EC50 - for Crustacea	7 mg/l/48h Species: Acartia tonsa. Read-across, ISO 14669 (1999) - ECHA
EC50 - for Algae / Aquatic Plants	> 10 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,16 mg/l Species: Oncorhynchus mykiss. OECD Guideline 204 - ECHA
Chronic NOEC for Crustacea	0,32 mg/l Species: Daphnia magna. OECD Guideline 211 - ECHA
Chronic NOEC for Algae / Aquatic Plants	3,2 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

12.2. Persistence and degradability

Cetrimonium chloride	
Solubility in water	240 mg/l Temp. 25° C pH 7 - ECHA
Rapidly degradable OECD Guideline 301 B - ECHA	
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	
Solubility in water	< 250 mg/l Temp. 20° C - ECHA
Rapidly degradable Similar to OECD Guideline 311 - ECHA	

12.3. Bioaccumulative potential

Cetrimonium chloride	
Partition coefficient: n-octanol/water	3,08 Temp. 25° C - ECHA
BCF	79 Read-across, EPA OPP 165-4 - ECHA
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	
Partition coefficient: n-octanol/water	4,44 (Q)SAR - ECHA
BCF	> 7 BCFWIN v2.15 - ECHA

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2

Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
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- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
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- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)

14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product`s classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **0010848**

Product name **WHF DEFENDO SPRAY PROTETTIVO CALORE**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Mixture for cosmetic use**

1.3. Details of the supplier of the safety data sheet

Name **G.V.F. – GIVIEFFE S.P.A.**

Full address **Via Giovanni Falcone, 8**

District and Country **20080 Vernate (MI)**
Italy

phone 0039 0290093743

fax 0039 0290093740

e-mail address of the competent person

responsible for the Safety Data Sheet **sarah.pizzolato@itelyhairfashion.it**

1.4. Emergency telephone number

For urgent inquiries refer to **Available 24 hours/day, 7/7 days:**
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726
Az. Osp. Univ. Foggia (Foggia): +39 800183459
Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870
CAV Policlinico "Umberto I" (Roma): +39 0649978000
CAV Policlinico "A. Gemelli" (Roma): +39 063054343
Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819
CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444
Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
European emergency number: 112 (Available 24 hours/day, 7/7 days)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, See section 3.

Hazard classification and indication:

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words:

Hazard statements:

Precautionary statements:

P273	Avoid release to the environment.
P280	Wear eye protection and face protection.
P337+P313	If eye irritation persists: Get medical advice or attention.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	**x = Conc. %**	**Classification 1272/2008 (CLP)**
N-[3-(dimethylamino)propyl]stearamide CAS 7651-02-7 EC 231-609-1 INDEX - Reg. no. 01-2119979089-19	1 ≤ x < 1,5	Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.
INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

N-[3-(dimethylamino)propyl]stearamide

Predicted no-effect concentration - PNEC		
Normal value in fresh water	7,1	µg/L
Normal value in marine water	0,7	µg/L
Normal value for fresh water sediment	1,25	mg/kg
Normal value for marine water sediment	0,13	mg/kg
Normal value for water, intermittent release	0,14	µg/L
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								1,7 mg/m3
Skin								2,77 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Pale liquid	Method:visual Remark:atmospheric pressure: 101,325 kPa Temperature:20° C
Colour	White	Method: visual
Odour	Floral - fresh - fruity - musk	Method: olfactory
Odour threshold	Not available	
pH	5,5 - 6,0	Method: pHmeter Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	

Lower explosive limit	Not applicable	Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	Not available	
Density	1 +/- 0,02 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
Explosive properties	Not applicable	Remark: there aren't components with explosive properties
Oxidising properties	Not applicable	Remark: there aren't components with oxidising properties

9.2. Other information

VOC: 0,0011 g/mL – 0,11%

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
Not classified (no significant component)
LD50 (Dermal) of the mixture:
Not classified (no significant component)

N-[3-(dimethylamino)propyl]stearamide

LD50 (Oral) > 2000 mg/kg Species: rat. OECD Guideline 423 - ECHA

LD50 (Dermal) > 2000 mg/kg Species: rabbit - ECHA

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

N-[3-(dimethylamino)propyl]stearamide	
LC50 - for Fish	> 0,1 mg/l/96h Species: Oncorhynchus mykiss. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,381 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	0,14 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,071 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
Chronic NOEC for Crustacea	0,2 mg/l Species: Daphnia magna. OECD Guideline 211 - ECHA

12.2. Persistence and degradability

N-[3-(dimethylamino)propyl]stearamide	
Solubility in water	10 mg/l OECD Guideline 105, temp. 20° C pH 6,8 - ECHA

Rapidly degradable
OECD Guideline 301 B - ECHA

12.3. Bioaccumulative potential

N-[3-(dimethylamino)propyl]stearamide	
Partition coefficient: n-octanol/water	2 EU Method A.8, pH 7 - ECHA

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H318	Causes serious eye damage.

H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy
Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
Product`s classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.
The data for evaluation of chemical-physical properties are reported in section 9.

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **10849**

Product name **WHF CRYSTAL OIL**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Mixture for cosmetic use**

1.3. Details of the supplier of the safety data sheet

Name **G.V.F. – GIVIEFFE S.P.A.**

Full address **Via Giovanni Falcone, 8**

District and Country **20080 Vernate (MI)**
Italy

phone 0039 0290093743

fax 0039 0290093740

e-mail address of the competent person responsible for the Safety Data Sheet **sarah.pizzolato@itelyhairfashion.it**

1.4. Emergency telephone number

For urgent inquiries refer to

Available 24 hours/day, 7/7 days:
CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726
Az. Osp. Univ. Foggia (Foggia): +39 800183459
Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870
CAV Policlinico "Umberto I" (Roma): +39 0649978000
CAV Policlinico "A. Gemelli" (Roma): +39 063054343
Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819
CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444
Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
European emergency number: 112 (Available 24 hours/day, 7/7 days)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, See section 3.

Hazard classification and indication: -

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

-

Hazard pictograms:

-

Signal words: -

Hazard statements:

EUH208 Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene
May produce an allergic reaction.

Precautionary statements:

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene CAS 19870-74-7 EC 243-384-7 INDEX - Reg. no. 01-2120228335-61	0,15 ≤ x < 0,2	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,43	µg/L
Normal value in marine water	0,043	µg/L
Normal value for fresh water sediment	1,29	mg/kg
Normal value for marine water sediment	0,129	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,257	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
Inhalation				4,7 mg/m3				16,1 mg/m3

Skin	1220 µg/cm²	2,7 mg/kg bw/d	2030 µg/cm²	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION
Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

In absence of values of the mixture, where it is possible, the values of the substances present in major concentration are reported.

Appearance	Oily liquid	Method: visual Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C
Colour	colourless	Method: visual
Odour	Floral - fresh - fruity - musk	Method: olfactory
Odour threshold	Not available	
pH	Not available	

Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	78 °C	Method: closed cup
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: the mixture doesn't contain substances with explosive properties
Upper explosive limit	Not applicable	Remark: the mixture doesn't contain substances with explosive properties
Vapour pressure	Dimethicone: <1000 hPa Decamethylcyclopentasiloxane: 0,16 hPa	Temperature: 50° C Temperature: 20° C
Vapour density	Dimethicone: 0,93 g/cm^3 Decamethylcyclopentasiloxane: 0,95	Temperature: 25° C
Relative density	0,945 +/- 0,02 g/mL	
Solubility	Decamethylcyclopentasiloxane: insoluble in water, soluble in toluene.	
Partition coefficient: n-octanol/water	Decamethylcyclopentasiloxane: 8,02	
Auto-ignition temperature	Decamethylcyclopentasiloxane: 392° C	
Decomposition temperature	Not available	
Viscosity	Decamethylcyclopentasiloxane: 4 mPa.s (20° C) dynamic viscosity Dimethicone: 1500 mPa s dynamic viscosity	Temperature: 25° C
Explosive properties	Not applicable	Remark: the mixture doesn't contain substances with explosive properties
Oxidising properties	Not applicable	Remark: the mixture doesn't contain substances with oxidizing properties

9.2. Other information

VOC: 0,00047 g/mL – 0,047%

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
Not classified (no significant component)
LD50 (Dermal) of the mixture:
Not classified (no significant component)

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	
LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

12.2. Persistence and degradability

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Solubility in water	4,3 mg/l Similar to OECD Guideline 105, temp. 24° C - ECHA

Rapidly degradable
OECD Guideline 301 D - ECHA

12.3. Bioaccumulative potential

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

Partition coefficient: n-octanol/water	5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA
BCF	1510 L/kg ww QSAR model - ECHA

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

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Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%

- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
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11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
Product`s classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.
The data for evaluation of chemical-physical properties are reported in section 9.