Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code:	**REF 9180**
Product name	**Colored gels**

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

Intended use	**Cosmetic**

1.3. Details of the supplier of the safety data sheet

Name	**PASSIONE BEAUTY S.P.A.**		
Full address	**Viale Crispi 89-93**		
District and Country	**36100**	**Vicenza**	**(VI)**
		Italia	
	Tel.	**+39 0444-239569**	
e-mail address of the competent person responsible for the Safety Data Sheet	**quality@pucosmetica.it**		

1.4. Emergency telephone number

For urgent inquiries refer to	**+39 0444-239569**

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Reproductive toxicity, category 1B	H360D	May damage the unborn child.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:

Signal words: Danger

Hazard statements:

H360D	May damage the unborn child.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

SECTION 2. Hazards identification ... / >>

Restricted to professional users.

Precautionary statements:

P201	Obtain special instructions before use.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P310	Immediately call a POISON CENTER / doctor / . . .
P273	Avoid release to the environment.
P391	Collect spillage.

Contains:

Tetrahydrofurfuryl methacrylate
2-(2-ethoxyethoxy)ethyl acrylate
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Propylidintrimethyl trimethacrylate
4,4'-isopropylidene diphenol, oligomeric reaction product with 1-chloro-2,3-epoxypropane esters with acrylic acid
3,6,9-trioxaundecamethylene dimethacrylate
2-ethylhexyl acrylate; Hexamethylene diacrylate
Disodium 3-hydroxy-4-[(4-methyl-2-sulfonatophenyl)azo]-2-naphthoate
Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 5-isocyanate-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, terminal 2-hydroxyethyl acrylate			
INDEX		54 ≤ x < 58	**Eye Irrit. 2 H319**
EC			
CAS	*68987-79-1*		
2-(2-ethoxyethoxy)ethyl acrylate			
INDEX		10,5 ≤ x < 12	**Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315**
EC	*230-811-7*		**STA Dermal: 1100 mg/kg**
CAS	*7328-17-8*		
4,4'-isopropylidene diphenol, oligomeric reaction product with 1-chloro-2,3-epoxypropane esters with acrylic acid			
INDEX		10,5 ≤ x < 12	**Skin Sens. 1 H317**
EC	*500-130-2*		
CAS	*55818-57-0*		
REACH Reg.	*01-2119490020-53-xxxx*		
2-hydroxy-2-methylpropiophenone			
INDEX		2 ≤ x < 2,5	**Acute Tox. 4 H302**
EC	*231-272-0*		**STA Oral: 500 mg/kg**
CAS	*7473-98-5*		
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
INDEX	*015-203-00-X*	2 ≤ x < 2,5	**Repr. 2 H361f**
EC	*278-355-8*		
CAS	*75980-60-8*		
REACH Reg.	*01-2119972295-29-xxxx*		
Silicon dioxide, obtained chemically			
INDEX		2 ≤ x < 2,5	**Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335**
EC	*231-545-4*		
CAS	*7631-86-9*		
REACH Reg.	*01-2119379499-16-xxxx*		

SECTION 3. Composition/information on ingredients ... / >>

Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
INDEX 2 ≤ x < 2,5 **Skin Sens. 1 H317, Aquatic Chronic 2 H411**
EC *282-810-6*
CAS *84434-11-7*

(1-hydroxycyclohexyl)phenylketone
INDEX 2 ≤ x < 2,5 **Aquatic Chronic 3 H412**
EC *213-426-9*
CAS *947-19-3*

Iron powder
INDEX 2 ≤ x < 2,5 **Flam. Sol. 1 H228, Self-heat. 1 H251**
EC *231-096-4*
CAS *7439-89-6*

3,6,9-trioxaundecamethylene dimethacrylate
INDEX 2 ≤ x < 2,5 **Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411**
EC *203-653-1*
CAS *109-17-1*

Propylidintrimethyl trimethacrylate
INDEX 2 ≤ x < 2,5 **Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1**
EC *221-950-4*
CAS *3290-92-4*

2-ethylhexyl acrylate; Hexamethylene diacrylate
INDEX *607-107-00-7* 0,809 ≤ x < 0,909 **Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: D**
EC *203-080-7*
CAS *103-11-7*
REACH Reg. *1-2119453158-37-xxx*

3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthene-9-yl)benzoic acid
INDEX 0,809 ≤ x < 0,909 **Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1**
EC *242-355-6*
CAS *18472-87-2*

Tetrahydrofurfuryl methacrylate
INDEX 0,809 ≤ x < 0,909 **Repr. 1B H360D, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412**
EC *219-529-5*
CAS *2455-24-5*
REACH Reg. *01-2120748481-53-XXXX*

Copper
INDEX 0,809 ≤ x < 0,909 **Acute Tox. 4 H302, STOT SE 2 H371, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411**
EC *231-159-6* **STA Oral: 500 mg/kg**
CAS *7440-50-8*

Disodium 3-hydroxy-4-[(4-methyl-2-sulfonatophenyl)azo]-2-naphthoate
INDEX 0,809 ≤ x < 0,909 **Skin Sens. 1 H317, Aquatic Chronic 3 H412**
EC *227-497-9*
CAS *5858-81-1*

Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]
INDEX 0,809 ≤ x < 0,909 **Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411**
EC
CAS *67924-34-9*

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

In case of inhalation:
Move to fresh air in case of accidental inhalation of dust or fumes caused by overheating or combustion. If symptoms persist, consult a doctor.
In case of skin contact:
Wash with warm water and soap. In case of skin irritation or allergic reactions, consult a doctor.
In case of contact with eyes:
In case of contact with eyes, remove contact lenses and rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If eye irritation persists, consult a doctor.
In case of ingestion:
Call a doctor immediately. Rinse your mouth with water and drink plenty of water. Do not induce vomiting.

SECTION 4. First aid measures ... / >>

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

Inhalation of vapors can cause irritation to the respiratory system in particularly sensitive individuals.

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

Treat symptomatically.
The first aid measures refer to professional use

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Use dry chemicals, CO2, water spray or "alcohol" foam.
Extinguishing media to avoid:
high volume water jet

5.2. Special hazards arising from the substance or mixture

In case of fire, the following can be released: Carbon oxides, nitrogen oxides (NOx), phosphorus oxides.

5.3. Advice for firefighters

GENERAL INFORMATIONS
Cool the containers with jets of water to avoid decomposition of the product and the development of substances potentially dangerous to health. Always wear full fire protection equipment. Collect extinguishing water that must not be discharged into sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.
EQUIPMENT
Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.
Normal fire-fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and fire fighter boots (HO A29 or A30).

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.

Ensure adequate ventilation.

6.2. Environmental precautions

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

Do not discharge into surface waters or the sanitary sewer system. Do not allow material to contaminate the underground water system. Local authorities must be notified if significant spills cannot be contained.

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.

Absorb with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Shovel into a suitable container for disposal.

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.

Ensure adequate ventilation. Avoid contact with skin and eyes. Wash your hands before breaks and at the end of the working day.
Precautions in case of fire and explosion: Keep away from flames and sparks - Do not smoke. Normal preventative fire protection measures.

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.

Storage Instructions: Store in original container. Store tightly closed in a dry, cool and well-ventilated place.
Never allow the product to come into contact with water during storage.
Store away from: Incompatible with oxidizing agents.
Additional information on storage conditions: Store in an area with solvent-resistant flooring.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

2-ethylhexyl acrylate; Hexamethylene diacrylate
Limit value: 10 ppm | 82 mg/m³

Disodium 3-hydroxy-4-[(4-methyl-2-sulfonatophenyl)azo]-2-naphthoate
Limit value: TLV dust: 10 mg/m³ (respirable fraction); 3 mg/m³ (alveolar passing fraction

Phenol, 4-(1,1-dimethylethyl)-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]
Limit value: TLV dust: 10 mg/m³ (respirable fraction); 3 mg/m³ (alveolar passing fraction)

Iron powder
Limit value: TLV dust: 10 mg/m³ (respirable fraction); 3 mg/m³ (alveolar passing fraction)

Silicon dioxide, obtained chemically
Limit value: 4 E mg/m³

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.
The following should be considered when choosing work glove material (see standard EN 374): 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 ISO 16321).
RESPIRATORY PROTECTION
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. 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).
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

SECTION 8. Exposure controls/personal protection ... / >>

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

Properties		Value		Information
Appearance		liquid		
Colour		various		
Odour		characteristic		
Melting point / freezing point		not available		
Initial boiling point		not available		
Flammability		not available		
Lower explosive limit		not available		
Upper explosive limit		not available		
Flash point	>	60	°C	
Auto-ignition temperature		not available		
Decomposition temperature		not available		
pH		not available		
Kinematic viscosity		not available		
Solubility		immiscible		
Partition coefficient: n-octanol/water		not available		
Vapour pressure		not available		
Density and/or relative density		not available		
Relative vapour density		not available		
Particle characteristics		not applicable		

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

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

Oxidizing agents.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

To avoid thermal decomposition, do not overheat.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

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

2-(2-ethoxyethoxy)ethyl acrylate

STA (Dermal):	1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

2-hydroxy-2-methylpropiophenone

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

May damage the unborn child

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

SECTION 11. Toxicological information ... / >>

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

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

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

12.1. Toxicity

Propylidintrimethyl trimethacrylate
IC50 (72h): 0.177 mg/l (Alge)

Propylidintrimethyl trimethacrylate

LC50 - for Fish	2 mg/l/96h rainbow trout
EC50 - for Crustacea	9,22 mg/l/48h daphnia

12.2. Persistence and degradability

The product is poorly soluble in water. It can be eliminated from water by abiotic processes.

12.3. Bioaccumulative potential

May cause long-term adverse effects in the aquatic environment.

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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.

Recommendation: Wash with a suitable detergent.
Uncontrolled disposal or recycling of this packaging is not permitted and may be dangerous.
Safe Handling: Handle in accordance with good industrial hygiene and safety practices.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9

14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: 274, 335, 375, 601		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Passengers:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

14.7. Maritime transport in bulk according to IMO instruments

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/EU: E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product
Point 3 - 40
Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
REACH Reg.: 01-2119972295-29-xxxx

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 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:

Flam. Sol. 1	Flammable solid, category 1
Self-heat. 1	Self-heating substance or mixture, category 1
Repr. 1B	Reproductive toxicity, category 1B
Repr. 2	Reproductive toxicity, category 2
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
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
STOT SE 2	Specific target organ toxicity - single exposure, 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 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H228	Flammable solid.
H251	Self-heating: may catch fire.
H360D	May damage the unborn child.
H361f	Suspected of damaging fertility.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.

SECTION 16. Other information ... / >>

H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H371	May cause damage to organs.
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
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- 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) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707

- The Merck Index. - 10th Edition
- Handling Chemical Safety

SECTION 16. Other information ... / >>

- 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.

CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:
The following sections were modified:
04 / 05.