Safety Data Sheet

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

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

1.1. Product identifier

Code:	**REF 6025**
Product name	**NP622 PARTY SILVER**

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:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful 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 word: Danger

Hazard statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

SECTION 2. Hazards identification ... / >>

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P370+P378	In case of fire: use . . . to extinguish.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P233	Keep container tightly closed.
P312	Call a POISON CENTRE / doctor / . . . if you feel unwell.

Contains: n-butyl acetate
Ethyl acetate
Propan-2-ol

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)
n-butyl acetate			
INDEX	*607-025-00-1*	42,5 ≤ x < 45	**Flam. Liq. 3 H226, STOT SE 3 H336, EUH066**
EC	*204-658-1*		
CAS	*123-86-4*		
REACH Reg.	*01-2119485493-29*		
Ethyl acetate			
INDEX	*607-022-00-5*	42,5 ≤ x < 45	**Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066**
EC	*205-500-4*		
CAS	*141-78-6*		
REACH Reg.	*01-2119475103-46*		
Propan-2-ol			
INDEX	*603-117-00-0*	8 ≤ x < 9	**Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336**
EC	*200-661-7*		
CAS	*67-63-0*		
REACH Reg.	*01-2119457558-25*		
Aluminum powder (stabilised)			
INDEX	*013-002-00-1*	4 ≤ x < 4,5	**Flam. Sol. 1 H228, Water-react. 2 H261, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Classification note according to Annex VI to the CLP Regulation: T**
EC	*231-072-3*		
CAS	*7429-90-5*		
REACH Reg.	*01-2119529243-45*		
phosphoric acid			
INDEX	*015-011-00-6*	0,05 ≤ x < 0,1	**Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, Classification note according to Annex VI to the CLP Regulation: B**
EC	*231-633-2*		**Skin Corr. 1B H314: ≥ 25%, Skin Irrit. 2 H315: ≥ 10% - < 25%, Eye Irrit. 2 H319: ≥ 10% - < 25%**
CAS	*7664-38-2*		
REACH Reg.	*01-2119485924-24*		

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

General first aid measures: If you feel unwell, consult a doctor.
In case of inhalation: Remove the casualty to fresh air and keep him at rest in a position comfortable for breathing.
In case of skin contact: Wash skin with plenty of water.

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

In case of contact with eyes: Wash eyes with water as a precaution.
If ingested: If you feel unwell, contact a poison control center or doctor.

Rescuer protection

Information not available

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

Symptoms/effects after inhalation: None under normal conditions.
Symptoms/effects after skin contact: None under normal conditions.
Symptoms/effects after eye contact: None under normal conditions.
Symptoms/effects after ingestion: None under normal conditions.

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

Treat the symptoms.

Means to have available in the workplace for specific and immediate treatment

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: water jet, dry powder, foam, carbon dioxide.
Unsuitable extinguishing media: do not use a powerful jet of water.

5.2. Special hazards arising from the substance or mixture

Fire Risk: No fire risk.
Explosion risk: No risk of direct explosion.
Hazardous decomposition products in case of fire: Possible release of toxic fumes.

5.3. Advice for firefighters

Firefighting instructions: Fight the fire from a safe distance and from a protected place. Do not enter the fire area without adequate protective equipment, including respiratory protection.
Protection during firefighting operations: Do not attempt to intervene without adequate protective equipment. Self-contained breathing apparatus. Full protective clothing.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Stop the leak if it is safe to do so. Notify the authorities if the product enters sewers or public waters.
Absorb spill to prevent property damage.
For non-emergency personnel
Protective Equipment: Wear recommended personal protective equipment.
Emergency Procedures: Ventilate spill area.
For rescuers
Protective equipment: Do not attempt to intervene without adequate personal protective equipment. For further information, see section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release into the environment

6.3. Methods and material for containment and cleaning up

For containment: absorb spilled material with sand or earth. Contain any spills with dikes or absorbent materials
prevent migration and entry into sewers or waterways. If possible, stop the leak safely.
Clean-up methods: Absorb spilled liquid with absorbent material.
Other information: Dispose of solid materials or waste at an authorized site.

6.4. Reference to other sections

For more information, see section 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Additional Hazards During Processing: Not expected to present significant hazards under normal conditions of use.
Precautions for safe handling: Make sure to ensure good ventilation of the workstation. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash your hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Store in a cool, well-ventilated place, away from heat sources.
Storage conditions: Store in a cool place. Protect from sunlight.
Packaging materials: Always store the product in a container made of the same material as the original packaging.
Switzerland: Storage class (LK): LK 3 - Flammable liquids

7.3. Specific end use(s)

No further information available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

n-butyl acetate

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	241	50	723	150	

Ethyl acetate

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	734	200	1468	400	

phosphoric acid

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	1		2		

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

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, permeability time.
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

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

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 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 AX 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 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		Solventi		
Odour threshold		50 ppm ethyl acetate, 7 – 20 mg/m³ n-butyl acetate		
Melting point / freezing point		not available		Remark:Punto di fusione: ≈ -90 °C
Initial boiling point	>	35	°C	Remark:Punto di ebollizione: ≈ 77 °C
Flammability		not available		
Lower explosive limit		12	% (v/v)	
Upper explosive limit		not available		
Flash point	<	23	°C	Remark:-4 °C (Non misurato - il valore indicato corrisponde al punto di infiammabilità della sostanza con il punto di infiammabilità più basso)
Auto-ignition temperature		not available		Remark:Temperatura di autoaccensione : ≈ 205 °C
Decomposition temperature		not available		Remark:Non disponibile
pH		not available		Remark:Non applicabile
Kinematic viscosity		not available		Remark:Non disponibile
Solubility		insoluble		
Partition coefficient: n-octanol/water		0,6	Log Kow	Substance:Ethyl acetate
Vapour pressure		≈ 9.8	kPa	
Density and/or relative density		1		Remark:Densità: Non disponibile
Relative vapour density		3,04		Substance:Ethyl acetate
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

Relative evaporation rate (ether=1)	< 1 acetato di etile

SECTION 10. Stability and reactivity

10.1. Reactivity

The product is not reactive in normal conditions of use, storage and transport.

SECTION 10. Stability and reactivity ... / >>

10.2. Chemical stability

Stable in normal conditions.

10.3. Possibility of hazardous reactions

There are no known dangerous reactions in normal conditions of use.

10.4. Conditions to avoid

None in the recommended storage and manipulation conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

In normal storage and use conditions, it should not produce dangerous decomposition products.

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

n-butyl acetate
pH: 6.2 Temp.: 20 °C Concentration: (≈)5 g/L

Kinematic viscosity 0.83 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)

Ethyl acetate
LOAEL (oral, rat, 90 days) 3600 mg/kg body weight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral, rat, 90 days) 900 mg/kg body weight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)

Aluminum powder (stabilised)
NOAEL (animal/male, F0/P) 1000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
LOAEC (inhalation, rat, dust/mist/fume, 90 days)
0.05 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

phosphoric acid
Noael (oral, rat, 90 days) 250 mg/kg of animal body weight: rat, guideline: OECD 422 guideline (combined study of toxicity to repeated doses with the screening test of toxicity for reproduction and development).

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:

SECTION 11. Toxicological information ... / >>

Not classified (no significant component)
ATE (Oral) of the mixture: Not classified (no significant component)
ATE (Dermal) of the mixture: Not classified (no significant component)

Ethyl acetate
LD50 (Dermal): > 20000 mg/kg Animal: rabbit
LD50 (Oral): 4934 mg/kg Animals: rabbit

Propan-2-ol
LD50 (Oral): 5840 mg/kg Rat

Aluminum powder (stabilised)
LD50 (Oral): > 15900 mg/kg Animal: Rat
LC50 (Inhalation mists/powders): > 0,888 mg/l Animal: Rat

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

n-butyl acetate
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

May cause drowsiness or dizziness

n-butyl acetate
May cause drowsiness or dizziness.

Ethyl acetate
May cause drowsiness or dizziness.

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 the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

n-butyl acetate

LC50 - for Fish	18 mg/l/96h Test organism (species): Pimephales promelas
EC50 - for Crustacea	44 mg/l/48h Test organism (species): Daphnia sp.
EC50 - for Algae / Aquatic Plants	674,7 mg/l/72h Test organism (species): Desmodesmus subspicatus
Chronic NOEC for Crustacea	23 mg/l Test organism (species): Daphnia magna

Ethyl acetate

LC50 - for Fish	230 mg/l/96h Species: Pimephales promelas
Chronic NOEC for Crustacea	2,4 mg/l Specie: Daphnia Magna

Propan-2-ol

LC50 - for Fish	9640 mg/l/96h Pimephales promelas Fish

Aluminum powder (stabilised)
EC50 72h - Algae [2] 0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

phosphoric acid

EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Desmodesmus subspicatus (previous name:

12.2. Persistence and degradability

n-butyl acetate
Persistence and degradability: Not rapidly degradable

Ethyl acetate
Persistence and degradability: Not rapidly degradable

Propan-2-ol
Rapidly degradable
Degradability:
BOD5 1.19 G O2/G
Cod 2,23 g o2/g
BOD5/COD 0.53

Biodegradability:
Concentration 100 mg/l
Period 14 days
Biodegradable % 86

Aluminum powder (stabilised)
NOT rapidly degradable

phosphoric acid
Persistence and degradability: Not rapidly degradable

12.3. Bioaccumulative potential

Propan-2-ol
Bioaccumulus potential:
BCF 3
Pow Log 0.05
Low potential

SECTION 12. Ecological information ... / >>

12.4. Mobility in soil

Propan-2-ol
Absorption/desorption:
KOC 1.5
Very high conclusion
Surface tension 2,24e-2 n/m (25 ºC)

Volatility:
Henry 8,207e-1 PA-M³/Mol
Dry soil yes
Wetland yes

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.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.
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 or ID number

ADR / RID, IMDG, IATA: UN 1266

14.2. UN proper shipping name

ADR / RID: PERFUMERY PRODUCTS
IMDG: PERFUMERY PRODUCTS
IATA: PERFUMERY PRODUCTS

SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3

14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: NO
IMDG: not marine pollutant
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 5 lt	Tunnel restriction code: (D/E)
	Special provision: 163, 640(C-D)		
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 lt	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Passengers:	Maximum quantity: 5 L	Packaging instructions: 353
	Special provision:	A3, A72	

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: P5c

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

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

SECTION 15. Regulatory information ... / >>

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. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Flam. Sol. 1	Flammable solid, category 1
Water-react. 2	Substance or mixture which in contact with water emits flammable gas, category 2
Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Skin Corr. 1	Skin corrosion, category 1
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
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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.

SECTION 16. Other information ... / >>

- 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
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
27. Delegated Regulation (UE) 2024/2564 (XXII Atp. CLP)
28. Regulation (EU) 2024/2865

- 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.

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:
02 / 03 / 11 / 12 / 16.