SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name:	SLIDE PRO
Commercial code:	40.021
UFI code:	M0UJ-13GS-K00U-3CA0

1.2 Identified uses of the substance or mixture and uses advised against

Protective wax for inflatable boats, synthetic materials and painted surfaces
Sectors of use:
Professional use [SU22]

Product categories:
Protective for inflatable boats

Uses advised against
Do not use for uses other than those indicated

1.3 Details of the supplier of the safety data sheet

Company name:	Silpar TK snc
Address:	Via Rosa Luxemburg 12/14 10093 - Collegno (TO)
Telephone:	+39 011 7791177
Fax:	+39 011 7791177
Email:	sicurezza@silpartkline.com

1.4 Emergency telephone number

CAVp "Osp. Pediatrico Bambino Gesù - Roma	Tel. +39 06 68593726
Az. Osp. Univ. Foggia	Tel. +39 0881 732326
Az. Osp. "A. Cardarelli" – Napoli	Tel. +39 081 7472870
CAV Policlinico "Umberto I" – Roma	Tel. +39 06 49978000
CAV Policlinico "A. Gemelli" – Roma	Tel. +39 06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica – Firenze	Tel. +39 055 7947819
CAV Centro Nazionale di Informazione Tossicologica – Pavia	Tel. +39 0382 24444
Osp. Niguarda Ca' Granda – Milano	Tel. +39 02 66101029
Azienda Ospedaliera Papa Giovanni XXII – Bergamo	Tel. +39 800 883300
Azienda Ospedaliera Universitaria Integrata Verona	Tel. +39 800 011858

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Reg. EU n°1272/2008 [CLP]
Skin Sens. 1A H317
Aquatic Chronic 3 H412

2.2 Label elements

Hazard pictograms:

Signal word: Warning

Hazard statements: H317 Può provocare una reazione allergica cutanea.

H412 Nocivo per gli organismi acquatici con effetti di lunga durata.

Precautionary statements:

P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P302 + P352 IF ON SKIN: Wash with plenty of water
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/ national/international

Contains: 2-octyl-2H-isothiazol-3-one, Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7]; 2-methyl-2H isothiazol-3-one [EC no. 220-239-6] (3: 1), Dinkum Oil.

2.3 Other hazards

Substance vPvB: None - Substance PBT: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N.A.

3.2 Mixtures

1.CAS 2.N° EC 3.N° Index 4.N° REACH	Name	Weight (%)	Classification 1272/2008 (CLP)
1. 68920-66-1 2. 500-236-9 3. Nota Available 4. Polimero, esente da registrazione REACH Art. 2(9)	Alcohols, C16-18 and C18 unsatd., Ethoxylated (> = 15 - <= 20 EO)	0-1	Aquatic Chronic 3 H412
1. 68920-66-1 2. Not Availablee 3. Not Availablee 4. Polimero, esente da registrazione REACH Art. 2(9)	Alcohols, C16-18 and C18 unsatd., ethoxylated (>10 - <15 EO)	0-1	Skin Irrit. 2 H315, Aquatic Chronic 3 H412
1. 8002-74-2 2. 232-315-6 3. Not Availablee 4. 01-2119488076-30-XXXX	Paraffin waxes and hydrocarbon waxes	0-1	Sostanza con un limite di esposizione professionale sul lavoro.
1. Not Available 2. 939-350-2 3. Not Available 4. 01-2119970550-39-0000	Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides	<0.5	Acute Tox. 4 H302, Skin Corr. 1B H314, Aquatic Acute 1 H400, Aquatic Chronic 1 H410
1. 26530-20-1 2. 247-761-7 3. 613-112-00-5 4. Not Availablee	2-octyl-2H-isothiazol-3-one	<0.1	Acute Tox. 3 H311 Acute Tox. 3 H331 Acute Tox. 4 H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Skin Sens. 1A H317 Aquatic Acute 1 H400 M=10 Aquatic Chronic 1 H410 M=1
1. 55965-84-9 2. 611-341-5 3. 613-167-00-5 4. Not Availablee	Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7]; 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)	<0.1	Acute Tox. 3 H301 Acute Tox. 2 H330 Acute Tox. 2 H310 Skin Corr. 1B H314 Eye Dam. 1 H318 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

1. 8000-48-4 2. 283-406-2 3. Not Availablee 4. Not Availablee	Dinkum Oil	<0.1	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Chronic 2 H411 Aquatic Chronic 1 H410

The full text of the H phrases is given in section 16 of the safety data sheet

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact — 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 contact — Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

Ingestion — Get medical advice/attention. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

Inhalation — Remove to open air. If unwell, contact a doctor.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by the contained substances, see chap. 11.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Extinguishing substances are: carbon dioxide, foam, chemical powder.
UNSUITABLE EXTINGUISHING EQUIPMENT
Do not use jets of water.

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
Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to other sections
Refer to 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)
See section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Occupational Exposure Limits
Paraffin waxes and hydrocarbon waxes
TLV-ACGIH 2 mg / m3 (TWA / 8h)

Derived No effect level (DNEL)
Alcohols, C16-18 and C18 unsatd., Ethoxylated (> = 15 - <= 20 EO)
Dermal 2 080 mg / kg bw / day (Systemic, chronic)
Inhalation 294 mg / m^3 (Systemic, chronic)
Dermal 1 250 mg / kg bw / day (Systemic, chronic) *
Inhalation 87 mg / m^3 (Systemic, chronic) *
Oral 25 mg / kg bw / day (Systemic, chronic) *
Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides
Dermal 5.7 mg / kg bw / day (Systemic, chronic)
Inhalation 3.96 mg / m^3 (Systemic, chronic)
Dermal 3.4 mg / kg bw / day (Systemic, chronic) *
Inhalation 1.64 mg / m^3 (Systemic, chronic) *
Oral 3.4 mg / kg bw / day (Systemic, chronic) *

* Values that refer to the population

Predicted No Effect Concentration (PNEC)
Alcohols, C16-18 and C18 unsatd., Ethoxylated (> = 15 - <= 20 EO)
0.007 mg / L (Fresh water)
0.001 mg / L (Water - intermittent release)
0.1 mg / L (Marine water)
22.79 mg / kg sediment dw (Sediments (Fresh water))
2.28 mg / kg sediment dw (Sediments (Marine))
1 mg / kg soil dw (Soil)
10 g / L (STP)
Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides
0.0009 mg / L (Fresh water)

0.0016 mg / L (Water - intermittent release)
0.00096 mg / L (Water (Marine))
12.27 mg / kg sediment dw (Sediments (Freshwater))
13.09 mg / kg sediment dw (Sediments (Marine))
7 mg / kg soil dw (Soil)
0.16 mg / L (STP)

2-octyl-2H-isothiazol-3-one

2.2 µg / L (Fresh water)
0.22 µg / L (Water - intermittent release)
1.22 µg / L (Sea water)
47.5 µg / kg sediment dw (Sediments (Fresh water))
4.75 µg / kg sediment dw (Sediments (Marine))
8.2 µg / kg soil dw (Soil)

8.2 Exposure controls

Hands protection	Protective gloves ompliant with standard EN 374 For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and method of use.
Respiratory protection	If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type A filter combined with a type P filter should be worn (see standard EN 14387). 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. In the event that the substance in question is odorless or its olfactory threshold is higher than the relative exposure limit and in case of emergency, or when the exposure levels are unknown or the concentration of oxygen in the work environment is less than 17% by volume, wear an open-circuit compressed air self-contained breathing apparatus (ref. standard EN 137) or respirator with external air intake for use with a full face mask, half mask or mouthpiece (ref. standard EN 138). Provide an eye wash and emergency shower system. The product must be used in highly ventilated environments and in the presence of strong localized aspirations, otherwise use the personal protective equipment indicated
Eye and face protection	Wear protective goggles (see standard EN 166).
Body and skin protection:	Wear professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	White milk
Odour:	Eucalyptus
Odour threshold:	N.A.
pH:	7
Melting point/freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Flammability (solid, gas):	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour pressure:	N.A.
Vapour density (Air=1):	N.A.

Relative density (Water=1):	1
Solubility(ies):	Soluble
Partition coefficient: n-octanol/water:	N.A.
Auto-ignition temperature (°C):	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	Non-explosive product
Oxidising properties:	N.A.

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
Too high temperatures can cause thermal decomposition.

10.3 Possibility of hazardous reactions
No dangerous reactions are expected

10.4 Conditions to avoid
Alcohols, C16-18 and C18 unsatd., Ethoxylated (> 10 - <15 EO)
Keep away from: strong oxidizing agents.

10.5 Incompatible materials
Oxidizing or reducing agents. Strong acids or bases.

10.6 Hazardous decomposition products
Alcohols, C16-18 and C18 unsatd., Ethoxylated (> 10 - <15 EO)
When heated to decomposition, it emits: toxic fumes, irritating vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Unless otherwise specified, the data required by Regulation (EU) 2015/830 indicated below are to be understood N.A.:
(a) acute toxicity;
Alcohols, C16-18 and C18 unsatd., Ethoxylated (> 10 - <15 EO)
LD50 (Oral)> 2000 mg / kg Rat - Source: CESIO
Alcohols, C16-18 and C18 unsatd., Ethoxylated (> = 15 - <= 20 EO)
LD50 (Oral)> 2000 mg / kg Rat
Paraffin waxes and hydrocarbon waxes
LD50 (Oral)> 5000 mg / kg Rat
LD50 (Dermal)> 2000 mg / kg Rat
Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides
LD50 (Oral) 10470 mg / kg dw Rat
LD50 (Dermal) 3412 mg / kg Rat
Dinkum Oil
LD50 Oral Rat: 2840 mg / Kg (RIFM) - 2800 mg / Kg (TDS)
LD50 Dermal Rabbit:> 5 g / Kg (RIFM).
(b) skin corrosion/irritation;
(c) serious eye damage/irritation;
The product is classified Eye Irrit. 2, H319
(d) respiratory or skin sensitisation;
The product is classified as Skin Sens. 1A H317
(e) germ cell mutagenicity;

(f) carcinogenicity;
(g) reproductive toxicity;
(h) STOT-single exposure;
(i) STOT-repeated exposure;
(j) aspiration hazard.

11.2 Information on other hazards
Information not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

1,2-benzisothiazol-3(2H)-one
LC50 - Fish 1,6 mg / l / 96h Oncorhynchus mykiss (OECD 203)
EC50 - Crustaceans 3,27 mg / l / 48h Daphnia Magna (OECD 202)
EC50 - Algae / Aquatic Plants 0.11 mg / l / 72h Selenastrum capricornutum (OECD 201)
Chronic NOEC Fish 0.21 mg / l Oncorhynchus mykiss (28 d - OECD 215)
Chronic NOEC Crustaceans 1,2 mg / l Daphnia Magna (21 d - OECD 211)
Chronic NOEC for Algae / Aquatic Plants 0.04 mg / l Selenastrum capricornutum (72 h - OECD 201)
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7]; 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)
LC50 - Fish 0,22 mg / l / 96h Onchorhyncus mykiss (OECD 203)
EC50 - Crustaceans 0,1 mg / l / 48h Daphnia magna (OECD 202)
EC50 - Algae / Aquatic Plants 0.048 mg / l / 72h Pseudokirchneriella subcapitata (OECD201)
Chronic NOEC Fish 0.098 mg / l Onchorhyncus mykiss (28 d OECD 215)
Chronic NOEC Crustaceans 0.004 mg / l Daphnia magna (21 d OECD 211)
Chronic NOEC Algae / Aquatic Plants 0.0012 mg / l Pseudokirchneriella subcapitata (OECD 201)
2-octyl-2H-isothiazol-3-one
LC50 - Fish 0.036 mg / l / 96h Oncorhynchus mykiss (OECD 203)
EC50 - Crustaceans 0,42 mg / l / 48h Daphnia magna (OECD 202)
EC50 - Algae / Aquatic Plants 0.084 mg / l / 72h Desmodesmus subspicatus (OECD 201)
Chronic NOEC Fish 0.022 mg / l Oncorhynchus mykiss - 28 d (OECD 210)
Chronic NOEC Crustaceans 0.002 mg / l Daphnia magna - 21d (OECD 211)
Chronic NOEC for Algae / Aquatic Plants 0.004 mg / l Algae - 72h (OECD 201)
Alcohols, C16-18 and C18 unsatd., Ethoxylated (> 10 - <15 EO)
Chronic NOEC Fish> 0.1 mg / l Carassius Auratus - Source: CESIO
Chronic NOEC Crustaceans> 0.1 mg / l Daphnie - Source: CESIO
Alcohols, C16-18 and C18 unsatd., Ethoxylated (> = 15 - <= 20 EO)
Chronic NOEC Fish> 0.1 mg / l Carassius Auratus - Source: CESIO
Chronic NOEC Crustaceans> 0.1 mg / l Daphnie - Source: CESIO
Chronic NOEC Algae / Aquatic Plants> 0.1 mg / l Algae - Source: CESIO
Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chloride
EC50 72h Algae 0.03mg/l
LC50 96h Fish 0.515mg/l
EC50 48h Crustaceans 0.016mg/l
NOEC 96h Algae 0.009mg/l
Paraffin waxes and hydrocarbon waxes
LC50 - Fish> 100 mg / l / 96h Fish
Chronic NOEC Crustaceans 10 mg / l Daphnia
Chronic NOEC Algae / Aquatic Plants> 100 mg / l Algae (acute)

12.2 Persistence and degradability

1,2-benzisothiazol-3(2H)-one
Rapidly degradable approx. 90% Zaha-Wellens test OECD 302 B
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7]; 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)
Rapidly degradable> 60% - OECD 301D

2-octyl-2H-isothiazol-3-one
Rapidly degradable OECD 309
Alcohols, C16-18 and C18 unsatd., Ethoxylated (> 10 - <15 EO)
Rapidly degradable Test: OECD 301 / F method - Duration: 28g>: 60% Notes: Easily biodegradable
Alcohols, C16-18 and C18 unsatd., Ethoxylated (> = 15 - <= 20 EO)
Rapidly degradable Test: OECD 301 / F method - Duration: 28g - 60%

12.3 Bioaccumulative potential
1,2-benzisothiazol-3(2H)-one
Partition coefficient: n-octanol / water 0,7 Log Kow OECD 117
BCF 6.95 Fish (OECD 305)
Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7]; 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)
Partition coefficient: n-octanol / water <0.71 Log Kow OECD 117
BCF 3.16 Calculated value (S1177)
2-octyl-2H-isothiazol-3-one
Partition coefficient: n-octanol / water 2.92 Log Kow OECD 117

12.4 Mobility in soil
2-octyl-2H-isothiazol-3-one LOW (KOC = 2120)

12.5 Results of PBT and vPvB assessment
On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data 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. Avoid littering. Do not contaminate soil, sewers and waterways. 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 or ID number
N.A.

14.2 UN proper shipping name
N.A.

14.3 Transport hazard class(es)
N.A.

14.4 Packing group
N.A.

14.5 Environmental hazards
N.A.

14.6 Special precautions for user

N.A.

14.7 Maritime transport in bulk according to IMO instruments

N.A.

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.
Point 3

Substances in Candidate List (Art. 59 REACH).
None.

Substances subject to authorisarion (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 carried out for the following contained substances:

SECTION 16: OTHER INFORMATION

Full text of H codes mentioned in sections 2 - 3

H226 Flammable liquid and vapor.
H301 Toxic if swallowed
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
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.

Classification and procedure used to derive it according to regulation (EC) 1272/2008 [CLP] in relation to mixture:

Skin Sens. 1A H317 - Calculation method
Aquatic Chronic 3 H412 - Calculation method

GENERAL BIBLIOGRAPHY

Regulation (EU) 1907/2006 of the European Parliament (REACH)
Regulation (EU) 1272/2008 of the European Parliament (CLP)
Regulation (EU) 2020/878 (Annex II REACH Regulation)
Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
Regulation (EU) 2016/1179 (IX Atp. CLP)
Regulation (EU) 2017/776 (X Atp. CLP)
Regulation (EU) 2018/669 (XI Atp. CLP)
Regulation (EU) 2019/521 (XII Atp. CLP)
Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
Regulation (EU) 2019/1148
Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
Regulation (EU) 2020/878 of the European Parliament

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
ECHA website

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.

Difference with the previous version:
Sections: 01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/16