

Safety Data Sheet according to Regulation (EC) 'No. 2020/878



SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier	PERAN SL LE PART B	Revision Date: 29/01/2024
Product Name:	Peran SL LE Part B	Supersedes Date: 20/06/2023
		Version Number: 2
	UFI Code:	Q062-T00E-H00M-QDRK
	Contain nanoform:	No
1.2 Relevant identified uses of the substance or mixture and uses advised against	Component of multicomponent coatings - Professional use only. Coatings and paints, thinners, paint removers. Manual activities involving hand contact. Widespread use leading to inclusion into/onto article (indoor). Widespread use leading to inclusion into/onto article (outdoor). For use by appropriately trained applicators. Roller application or brushing. Advised against: Home DIY applications. Advised against: Spray application, because of the additional hazards. Advised against: others than recommended	
1.3 Details of the supplier of the safety data sheet		
	Manufacturer:	Tremco CPG Poland Sp. z o. o.
		Ul. Marywilska 34
		03-228 Warszawa
		Polska
		Tel: +48 22 879 8907
		Fax: +48 22 879 8918
		ehs.uk@flowcrete.com
		www.flowcrete.com.pl/
	Datasheet Produced by:	ehs.uk@flowcrete.com
1.4 Emergency telephone number:	CHEMTREC +1 703 5273887 (Outside US)	

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

Acute Toxicity, Oral, category 4	H302
Skin Corrosion, category 1	H314-1
Skin Sensitizer, category 1	H317
Hazardous to the aquatic environment, Acute, category 1	H400
Hazardous to the aquatic environment, Chronic, category 1	H410

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

1,3-cyclohexanemethanamine, Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia., 1,2 - Ethanediamine, N-(2-aminoethyl)-reaction products with glycidyl tolyl ether

HAZARD STATEMENTS

Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Skin Corrosion, category 1	H314-1	Causes severe skin burns and eye damage.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, Acute, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, Chronic, category 1	H410	Very toxic to aquatic life with long lasting effects.

PRECAUTION PHRASES

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

2.3 Other hazards

Avoid release to the environment.

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

Endocrine disrupting properties - Toxicity**Name According to EEC****CAS-No.**

No Information

Endocrine disrupting properties - Ecotoxicity**Name According to EEC****CAS-No.**

No Information

SECTION 3: Composition/Information On Ingredients**3.1 Substances**

Not applicable

3.2 Mixtures**Hazardous ingredients**

<u>Name According to EEC</u> <u>EINEC No.</u> <u>CAS-No.</u> <u>REACH Reg No.</u>	<u>%</u>	<u>Classifications</u>	SCL Value: ATE Value: M-Factor:
1,2 - Ethanediamine, N-(2-aminoethyl)-reaction products with glycidyl tolyl ether 84144-79-6 No Information	50 - <75	H302-314-317-400-410 Acute Tox. 4 Oral, Aquatic Acute 1, Aquatic Chronic 1, Skin Corr. 1C, Skin Sens. 1	SCL Value: - ATE Value: - M-Factor: (acute) - M-Factor: (chronic) -

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia. 618-561-0 9046-10-0 01-2119557899-12	10 - <25	H314-412 Aquatic Chronic 3, Skin Corr. 1C	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-
1,3-cyclohexanemethanamine 219-941-5 2579-20-6 01-2119543741-41	2.5 - <10	H302-312-314-412 Acute Tox. 4 Dermal, Acute Tox. 4 Oral, Aquatic Chronic 3, Skin Corr. 1	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-
Alcohols, C10-16 267-019-6 67762-41-8 No Information	2.5 - <10	H400 Aquatic Acute 1	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-

Toluene-4-sulphonic acid monohydrate 6192-52-5 No Information	2.5 - <10	H315-319-335 Eye Irrit. 2, Skin Irrit. 2, STOT SE 3 RTI	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	-
			M-Factor: (chronic)	-
2,6-Di-tert-butyl-p-cresol 204-881-4 128-37-0 01-2119565113-46	0.1 - <1.0	H400-410 Aquatic Acute 1, Aquatic Chronic 1	SCL Value:	-
			ATE Value:	-
			M-Factor: (acute)	1
			M-Factor: (chronic)	-

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

SECTION 4: First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice. Show this safety data sheet to the doctor in attendance. Risk of product entering the lungs on vomiting after ingestion. Remove contaminated clothing and shoes.

AFTER INHALATION: Remove person to fresh air. If signs/symptoms continue, get medical attention.

AFTER SKIN CONTACT: Use a mild soap if available. Consult a physician. Do not use solvent or thinners to clean skin. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

AFTER EYE CONTACT: Immediate medical attention is required. Keep eye wide open while rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. Causes burns. May cause sensitization by skin contact. Harmful by inhalation and if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Immediate medical attention is required.

SECTION 5: Firefighting Measures**5.1 Extinguishing Media:**

Carbon Dioxide, Dry Chemical, Foam, Water Fog

FOR SAFETY REASONS NOT TO BE USED: Do not use a solid water stream as it may scatter and spread fire. Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture

In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

5.3 Advice for firefighters

Keep containers and surroundings cool with water spray. In the event of fire, wear self-contained breathing apparatus. Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SECTION 6: Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

Avoid contact with skin, eyes and clothing. For personal protection see section 8.2. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

6.1.2 For emergency responders

See Section 7, 8 and 10 for further information.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

FURTHER INSTRUCTIONS: Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information. Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and Storage**7.1 Precautions for safe handling**

Wear personal protective equipment. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Apply technical measures to comply with the occupational exposure limits (see section 8). People handling epoxy products must

have received special training according to guidelines from the National Occupational Health and Safety Board. In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Do not freeze. **STORAGE CONDITIONS:** Keep out of the reach of children. Keep at temperatures between 15 and 30 °C. Store in original container. Keep container tightly closed in a dry and well-ventilated place. Keep container closed when not in use. Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

Component of multicomponent coatings. The mixing and application to be in accordance with the technical data sheets.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (UK WELS)

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
1,2 - Ethanediamine, N-(2-aminoethyl)- reaction products with glycidyl tolyl ether	84144-79-6				
Reaction products of di-, tri- and tetra- propoxylated propane-1,2-diol with ammonia.	9046-10-0				
1,3-cyclohexanemethanamine	2579-20-6				
Alcohols, C10-16	67762-41-8				
Toluene-4-sulphonic acid monohydrate	6192-52-5				
2,6-Di-tert-butyl-p-cresol	128-37-0				10

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
1,2 - Ethanediamine, N-(2-aminoethyl)- reaction products with glycidyl tolyl ether	84144-79-6	
Reaction products of di-, tri- and tetra- propoxylated propane-1,2-diol with ammonia.	9046-10-0	
1,3-cyclohexanemethanamine	2579-20-6	
Alcohols, C10-16	67762-41-8	
Toluene-4-sulphonic acid monohydrate	6192-52-5	
2,6-Di-tert-butyl-p-cresol	128-37-0	

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

Chemical Name:

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia.

EC No.:

618-561-0

CAS-No.:

9046-10-0

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							
Inhalation				1.36 mg/m ³				
Dermal				2.5 mg/kg				

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.015 mg/l
Fresh water sediments	0.132
Marine water	0.014 mg/l
Marine sediments	0.125
Food chain	
Microorganisms in sewage treatment	7.5 mg/l
soil (agricultural)	0.0176
Air	-

Chemical Name:

2,6-Di-tert-butyl-p-cresol

EC No.:

204-881-4

CAS-No.:

128-37-0

DNELs - Derived no effect level

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							
Inhalation				3.5 mg/m ³				
Dermal				0.5 mg/kgbw/d				

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.199 µg/l
Fresh water sediments	0.0996 mg/kg
Marine water	0.02 µg/l
Marine sediments	0.00996 mg/kg
Food chain	
Microorganisms in sewage treatment	0.170 mg/l
soil (agricultural)	0.04769 mg/kg
Air	

8.2 Exposure controls**Personal Protection**

RESPIRATORY PROTECTION: No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment, filter A.

EYE PROTECTION: Eye wash bottle with pure water. Face-shield. Safety glasses with side-shields conforming to EN 166.

HAND PROTECTION: Use chemical resistant gloves (EN 374): Butyl rubber; thickness $\geq 0,5$ mm; breakthrough time ≥ 60 min. Use chemical resistant gloves (EN 374): Nitrile rubber; thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Take note of the

information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Long sleeved clothing. Remove and wash contaminated clothing before re-use.

OTHER PROTECTIVE EQUIPMENT: Ensure that eyewash stations and safety showers are close to the workstation location.

ENGINEERING CONTROLS: As a rule, at least 5 air changes per hour are recommended at the workplace. Ensure adequate ventilation, especially in confined areas.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Colour:	Light yellow
Physical State	Liquid
Odor	Amine odor
Odor threshold	Not determined
pH	Alkaline
Melting point / freezing point (°C)	Not determined
Boiling point or initial boiling point and boiling range (°C)	> 100 - N.D.
Flash Point, (°C)	Not measured
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Lower and upper explosive limit	Not determined
Vapour Pressure	11.03 mm Hg (21 °C)
Relative vapour density	Not applicable
Density and/or relative density	ca. 1.02
Solubility in / Miscibility with water	No information available.
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Kinematic viscosity	400-800 mPa.s (25 °C)
Particle characteristics	Not applicable to liquids

9.2 Other information

VOC Content g/l:	< 20
Specific Gravity (g/cm ³)	0.120

SECTION 10: Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under recommended storage and use conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Exothermic reaction with strong acids.

10.4 Conditions to avoid

Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Do not freeze.

10.5 Incompatible materials

Nitrous acid and other nitrosating agents. Acids. Oxidizing agents. Reacts violently with peroxides.

10.6 Hazardous decomposition products

In case of fire **hazardous decomposition products** may be produced such as: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke. No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute Toxicity:**

Oral LD50: No Information

Inhalation LC50: No Information

Dermal LD50: No Information

Irritation: No information available.

Corrosivity: Corrosive to eyes and skin.

Sensitization: May cause an allergic skin reaction.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.
Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>	<u>Gas LC50</u>	<u>Dust/Mist LC50</u>
84144-79-6	1,2 - Ethanediamine, N-(2-aminoethyl)-reaction products with glycidyl tolyl ether	> 300 - 1000 mg/kg	> 5000 mg/kg		0.000	0.000
9046-10-0	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia.		2980 mg/kg (rabbit)	Not determined	Not determined	Not determined

2579-20-6	1,3-cyclohexanemethanamine	700 mg/kg, oral (rat)	1700 mg/kg (rabbit)	130 mg/L	0.000	0.000
128-37-0	2,6-Di-tert-butyl-p-cresol	> 2001 mg/kg (rat)	> 2001 mg/kg (rat)		0.000	0.000

Additional Information:

In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Corrosive to skin. Corrosive - causes irreversible eye damage. Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine. May cause allergic skin reaction.

11.2 Information on other hazards**Endocrine disrupting properties - Toxicity**

Name According to EEC

CAS-No.

No Information

SECTION 12: Ecological Information**12.1 Toxicity:**

EC50 48hr (Daphnia): No information

IC50 72hr (Algae): No information

LC50 96hr (fish): No information

12.2 Persistence and degradability: No information**12.3 Bioaccumulative potential:** No information**12.4 Mobility in soil:** No information**12.5 Results of PBT and vPvB assessment:** The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.**12.6 Endocrine disrupting properties****Endocrine disrupting properties - Ecotoxicity**

Name According to EEC

CAS-No.

No Information

12.7 Other adverse effects: No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
84144-79-6	1,2 - Ethanediamine, N-(2-aminoethyl)-reaction products with glycidyl tolyl ether	14 mg/l	No information	10 mg/l (Leuciscus idus) 10 mg/l (Lepomis macrochirus)
9046-10-0	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia.	No information	No information	> 15 mg/l
2579-20-6	1,3-cyclohexanemethanamine	No information	No information	>100 mg/L
67762-41-8	Alcohols, C10-16	No information	No information	No information

6192-52-5	Toluene-4-sulphonic acid monohydrate	No information	No information	No information
128-37-0	2,6-Di-tert-butyl-p-cresol	No information	No information	0.464 mg/L

SECTION 13: Disposal Considerations

- 13.1 WASTE TREATMENT METHODS:** Dispose of waste material at an approved hazardous waste treatment/disposal facility in accordance with applicable local state, and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems. Contaminated packaging to be disposed of as product. Fully drained containers which are drop- and scrape-free can be treated as industrial waste, and can possibly be recycled. Empty containers should be taken to an approved waste handling site for recycling or disposal. The product should not be allowed to enter drains, water courses or the soil.

European Waste Code: 080111*

Packaging Waste Code: 150110*

SECTION 14: Transport Information

	ADR/RID	ADN	IMDG	IATA
14.1 UN-number or ID number	UN2735	UN2735	UN2735	UN2735
14.2 UN proper shipping name	Amines, liquid, corrosive, N.O.S., (1,2-ethanediamine, N-(2-aminoethyl)-reaction products)	Amines, liquid, corrosive, N.O.S., (1,2-ethanediamine, N-(2-aminoethyl)-reaction products)	Amines, liquid, corrosive, N.O.S., (1,2-ethanediamine, N-(2-aminoethyl)-reaction products)	Amines, liquid, corrosive, N.O.S., (1,2-ethanediamine, N-(2-aminoethyl)-reaction products)
14.3 Transport Hazard Class(es)	8	8	8	8
14.4 Packing Group	III	III	III	III
14.5 Enviromental Hazards	Marine Pollutant	Marine Pollutant	Marine Pollutant	Marine Pollutant

14.6 Special precautions for user Not applicable

EmS-No.: F-A, S-B

14.7 Maritime transport in bulk according to IMO intruments Not applicable

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation for the substance or mixture:**National Regulations:**

Denmark Product Registration Number:	Not available
Danish MAL Code:	00-4 (1993)
Danish MAL Code - Mixture:	00-5 (1993)
Sweden Product Registration Number:	Not available
Norway Product Registration Number:	Not available
Germany WGK Class:	3
Directive 2004/42/CE :	< 20
Covered by Directive 2012/18/EC (Seveso III):	Not applicable
Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:	Not applicable

Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:

CAS-No. Name According to EEC

Not Applicable

SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):

CAS-No. Name According to EEC

Not Applicable

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory 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.

Reasons for revision

Substance and/or Product Properties Changed in Section(s):

- 01 - Identification
 - 02 - Hazard Identification
 - 03 - Composition/Information On Ingredients
 - 09 - Physical and Chemical Properties
 - 14 - Transportation Information
 - 15 - Regulatory Information
- Revision Statement(s) Changed

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter

mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects
IMO	International Maritime Organization
Note P:	The classification as a carcinogen or mutagen need not apply; the substance contains less than 0,1 % w/w benzene
Note 10:	The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$.

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.