

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/03/2024

1. Identification

Product Identifier

• **Trade Name:** Uberseal™ 3.1

Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

Product Description: Hybrid Elastomeric Sealant / Adhesive

Details of the Supplier of the Safety Data Sheet:

• **Manufacturer/Supplier:**

Ubertile® A division of the Rudiger Group Inc.
10330-117 Ave
Grande Prairie, Ab, T8V-7S5
Phone: 877-759-5755

• **Emergency telephone number:**

CHEMTREC: Canada/USA- 1-800-424-9300
International - (703) 527-3887

2. Hazard(s) Identification

Classification of the substance or mixture:



Health hazard

Carc. 1A
Repr. 1B

H350 May cause cancer.
H360 May damage fertility or the unborn child.



Skin Sens. 1
Eye Irrit. 2B
Aquatic Acute 2
Aquatic Chronic 3

H317 May cause an allergic skin reaction.
H320 Causes eye irritation.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Label elements:

• **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms:**



GHS07



GHS08

Signal word: Danger

Hazard-determining components of labeling:

Titanium Dioxide
Dibutyltin bis(acetylacetonate)
Quartz (SiO₂)
N-(3-(trimethoxysilyl)propyl)ethylenediamine

Hazard statements:

H320 Causes eye irritation.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
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.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

Classification system: NFPA/HMIS Definitions: 0-Least, 1 -Slight, 2-Moderate, 3-High, 4-Extreme

· NFPA ratings (scale 0 - 4)



Health = 1

Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *1

Fire = 1

Physical Hazard = 0

Hazard(s) not otherwise classified (HNOC): None known

3. Composition/Information on Ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous Components:

CAS: 471-34-1 RTECS: EV 9580000	Calcium Carbonate	25-50%
CAS : 1317-65-3	Natural limestone	25-50%
CAS: 68515-49-1	Diisodecyl Phthalate Aquatic Acute 1, H400; Eye Irrit. 2B, H320	15-35%
CAS: 57-11-4 RTECS: WI 2800000	Stearic Acid, pure ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	5-10%
CAS: 13463-67-7	Titanium Dioxide ⚠ Carc. 2, H351	2-12%
CAS: 2768-02-7	Trimethoxyvinylsilane ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332	≤2.5%
CAS: 67-56-1 RTECS: PC 1400000	Methanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT SE 1, H370	≤2.5%
CAS: 1760-24-3 RTECS: KV 7400000	N-(3-(trimethoxysilyl)propyl)ethylenediamine ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317	≤2.5%
CAS: 25973-55-1	2-(2H-benzotriazol -2-yl)-4,6-di-tert-pentylphenol	≤2.5%
CAS: 14808-60-7 RTECS: VV 7330000	Quartz (SiO ₂) ⚠ Carc. 1A, H350; STOT RE 1, H372; ⚠ Acute Tox. 4, H332; STOT SE 3, H335 Eye Irrit. 2B, H320	≤2.5%

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4. First-Aid Measures

Description of first aid measures

· General information:

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

· After inhalation:

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

· After skin contact:

Immediately wash skin with soap and plenty of water for at least 15 minutes.

Remove contaminated clothing and wash before reuse.

Get medical attention if symptoms occur.

· **After eye contact:**

If easy to do so, remove contact lenses if worn.

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes.

Seek medical treatment.

· **After swallowing:**

Do not induce vomiting.

If conscious, give no more than two glasses of water.

Seek medical treatment.

Information for doctor

· **Most important symptoms and effects, both acute and delayed:**

May cause an allergic skin reaction. Prolonged exposure may cause chronic effects.

· **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

5. Fire-Fighting Measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture:**

Hazardous decomposition products include: carbon dioxide, carbon monoxide and incompletely burnt hydrocarbons.

· **Advice for firefighters**

· **Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

· **Additional information:** Cool fire exposed containers with water.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin, eyes and clothing.

Do not breathe vapor.

Product is slippery when spilled.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

PAC-1:		
471-34-1	Calcium Carbonate	45 mg/m ³
57-11-4	Stearic Acid, pure	14 mg/m ³
13463-67-7	Titanium Dioxide	30 mg/m ³
2768-02-7	Trimethoxyvinylsilane	9.5 ppm
67-56-1	Methanol	530 ppm
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	23 mg/m ³
14808-60-7	Quartz (S iO ₂)	0.075 mg/m ³

PAC-2:		
471-34-1	Calcium Carbonate	210 mg/m ³
57-11-4	Stearic Acid, pure	150 mg/m ³
13463-67-7	Titanium Dioxide	330 mg/m ³
2768-02-7	Trimethoxyvinylsilane	100 ppm
67-56-1	Methanol	2,100 ppm
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	250 mg/m ³
14808-60-7	Quartz (S iO ₂)	33 mg/m ³

PAC-3:		
471-34-1	Calcium Carbonate	1,300 mg/m ³
57-11-4	Stearic Acid, pure	910 mg/m ³
13463-67-7	Titanium Dioxide	2,000 mg/m ³
2768-02-7	Trimethoxyvinylsilane	120 ppm
67-56-1	Methanol	7200* ppm
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	1,500 mg/m ³
14808-60-7	Quartz (S iO ₂)	200 mg/m ³

7. Handling and Storage

Handling

· Precautions for safe handling:

- Ensure good ventilation/exhaustion at the workplace.
- Avoid contact with skin, eyes and clothing
- Avoid breathing fume/gas/mist/vapors/spray.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

· Requirements to be met by storerooms and receptacles:

- Store in a cool, dry place.
- Store in a well ventilated place.
- Store in the original container.
- Protect from moisture.

· **Information about storage in one common storage facility:** See Section 10 (Incompatible materials)

· **Further information about storage conditions:** Keep receptacle tightly sealed.

Specific end use(s): No further relevant information available.

8. Exposure Controls/Personal Protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters:

· Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

471-34-1 Calcium Carbonate	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	TLV withdrawn

1317-65-3 Natural limestone	
NIOSH	Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³
NIOSH TWA	Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³ espirable dust
OSHA	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³
OSHA TWA	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³ espirable fraction

68515-49-1 Diisodecyl Phthalate	
OSHA PEL	Short-term value: 5 mg/m ³

67-56-1 Methanol	
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

14808-60-7 Quartz (SiO₂)	
PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *as respirable fraction

Ingredients with biological limit values:	
67-56-1 Methanol	
BEI	15 mg/L urine end of shift Methanol (background, nonspecific)

Additional information: The lists that were valid during the creation of this SDS were used as basis.

Exposure controls:

· **Personal protective equipment**

· **General protective and hygienic measures:**

Do not smoke around this product.

Do not eat or drink while handling product.

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

· **Protection of hands:**



Protective gloves

· **Material of gloves:** Any liquid-tight rubber or vinyl rubber protective gloves.

· **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

Limitation and supervision of exposure into the environment:

Keep away from drains, surface and ground waters.
Avoid release into the environment.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

General Information	
Appearance:	
· Form:	Paste
· Color:	White
Odour:	Slight
Odor threshold:	Not determined
pH-value:	Not applicable.
Change in condition	
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	≥250 °C (≥482 °F)
Flash point:	>200 °C (>392 °F) (ISO 2592)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	≥395 °C (≥743 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure @ 20 °C (68 °F):	<1.0 hPa (<0.8 mm Hg)
Density @ 20 °C (68 °F):	1.66 g/cm ³ (13.8527 lbs/gal)
Relative density:	Not determined.
Vapor density:	>1 (Air=1)
Evaporation rate:	<1 (n-Butyl Acetate =1)
Solubility in / Miscibility with:	
· Water:	Not miscible or difficult to mix
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
Solvent content:	
· VOC content:	18 g/l
Other information:	No further relevant information available.

10. Stability and Reactivity

Reactivity: Stable under normal conditions.

Chemical stability: Stable under normal conditions.

Thermal decomposition / conditions to be avoided:

Thermal decomposition will result in carbon monoxide, carbon di oxide and or low molecular weight hydrocarbons.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: Avoid heat, flames and sparks. Avoid contact with incompatible materials.

Incompatible materials:

Strong acids
Strong oxidizing agents.

Hazardous decomposition products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and or low molecular weight hydrocarbons.

11. Toxicological Information

Information on toxicological effects:

Acute toxicity:

· LD/LC50 values that are relevant for classification:

· LD/LC50 values that are relevant for classification:		
471-34-1	Calcium Carbonate	
Oral	LD50	6,450 mg/kg (Rat)
1317-65-3	Natural limestone	
Oral	LD50	6,450 mg/kg (Rat)
57-11-4	Stearic Acid, pure	
Dermal	LD50	>5,000 mg/kg (Rabbit)
13463-67-7	Titanium Dioxide	
Oral	LD50	>10,000 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (Rat)
67-56-1	Methanol	
Oral	LD50	1,187 mg/kg (Rat)
Dermal	LD50	17,100 mg/kg (Rabbit)
Inhalative	LC50/4 h	128.2 mg/l (Rat)
	LC50/96 hours	15,400 mg/l (Trout)
14808-60-7	Quartz (SiO₂)	
Oral	LD50	>22,500 mg/kg (Rat)
Inhalative	LC50/96 hours	1,033 mg/l (Trout)

Primary irritant effect:

· On the skin:

Irritant to skin and mucous membranes.
May cause an allergic skin reaction.

· On the eye: Irritating effect.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

Carcinogenic categories:

- IARC (International Agency for Research on Cancer):

"In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicate dust and organic fibers, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk." (SCOEL SUM Doc 94-final, June 2003)

According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled".

(a) Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials, such as in cosmetics or in paints."

(b) OSHA does not regulate Titanium Dioxide as a carcinogen. However, under 29 CFR 1910.1200 the SDS must convey the fact that Titanium Dioxide is a potential carcinogen to rats.

- Group 1 - Carcinogenic to humans
- Group 2A - Probably carcinogenic to humans
- Group 2B - Possibly carcinogenic to humans
- Group 3 - Not classifiable as to its carcinogenicity to human
- Group 4 - Probably not carcinogenic to humans

13463-67-7	Titanium Dioxide	2B
14808-60-7	Quartz (SiO ₂)	1

NTP (National Toxicology Program):

14808-60-7	Quartz (SiO ₂)	K
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OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12. Ecological Information

Toxicity:

Aquatic toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

68515-49-1 EC50	Diisodecyl Phthalate 0.02 mg/l (Water flea)
13463-67-7 EC50	Titanium Dioxide >1,000 mg/l (Water flea)
67-56-1 EC50	Methanol 22,000 mg/l (Green algae) 10,000 mg/l (Daphnia)
14808-60-7 EC50	Quartz (SiO₂) 218 mg/l (Green algae)

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish

Additional ecological information:

· **General notes:**

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

Poisonous for fish and plankton in water bodies

Toxic for aquatic organisms

Results of PBT and vPvB assessment:

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

Other adverse effects: No further relevant information available.

13. Disposal Considerations

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

Uncleaned packaging

- **Recommendation:** Disposal must be made according to official regulations.

14. Transport Information

UN-Number:

- DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

UN proper shipping name:

- DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

Transport hazard class(es):

- DOT, ADR/ADN, ADN, IMDG, IATA

Class: Non-Regulated Material

Packing group:

- DOT, ADR/ADN, IMDG, IATA Non-Regulated Material

Environmental hazards: Not applicable.

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

UN "Model Regulation": Non-Regulated Material

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):
None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):	
67-56-1	Methanol

TSCA (Toxic Substances Control Act):	
471-34-1	Calcium Carbonate
1317-65-3	Natural limestone
68515-49-1	Diisodecyl Phthalate
57-11-4	Stearic Acid, pure
13463-67-7	Titanium Dioxide
2768-02-7	Trimethoxyvinylsilane
67-56-1	Methanol
1760-24-3	N-(3-trimethoxysilyl)propyl)ethylenediamine
52829-07-9	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol
14808-60-7	Quartz (SiO ₂)

California Proposition 65:

Warning: This product contains a chemical known in the state of California to cause birth defects.

Chemicals known to cause cancer:	
13463-67-7	Titanium Dioxide
14808-60-7	Quartz (SiO ₂)
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
68515-49-1	Diisodecyl Phthalate
67-56-1	Methanol

New Jersey Right-to-Know List:	
1317-65-3	Natural limestone
13463-67-7	Titanium Dioxide
67-56-1	Methanol
14808-60-7	Quartz (SiO ₂)

New Jersey Special Hazardous Substance List:	
67-56-1	Methanol TE, F3
14808-60-7	Quartz (SiO ₂) CA

· Pennsylvania Right-to-Know List:	
1317-65-3	Natural limestone
13463-67-7	Titanium Dioxide
14808-60-7	Quartz (SiO ₂)

Pennsylvania Special Hazardous Substance List:
None of the ingredients are listed.

Carcinogenic categories:

EPA (Environmental Protection Agency):
None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):	
13463-67-7	Titanium Dioxide A4
14808-60-7	Quartz (SiO ₂) A2

NIOSH-Ca (National Institute for Occupational Safety and Health):	
13463-67-7	Titanium Dioxide
14808-60-7	Quartz (SiO ₂)

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS07



GHS08

Signal word: Danger

Hazard-determining components of labeling:

- Titanium Dioxide
- Dibutyltin bis(acetylacetonate)
- Quartz (SiO₂)
- N-(3-(trimethoxysilyl)propyl)ethylenediamine

Hazard statements:

- H320 Causes eye irritation.
- H317 May cause an allergic skin reaction.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.
- H401 Toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
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.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned : Get medical advice/attention.
P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

None of the ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 05-03-2024

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEL: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/ irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 1A: Carcinogenicity – Category 1A
Carc. 2: Carcinogenicity – Category 2
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long- term aquatic hazard – Category 3