

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**KRAFT ELAST KLEBER 635**

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

#### 1.2.1 Relevant uses

Adhesive

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

#### Company

Ramsauer GmbH & Co KG  
Alte Bundesstraße 147  
5350 Strobl / Wolfgangsee / AUSTRIA  
Phone +43 (0)6135 8205 0  
Fax +43 (0)6135 8205-250  
Homepage [www.ramsauer.eu](http://www.ramsauer.eu)  
E-mail [office@ramsauer.eu](mailto:office@ramsauer.eu)

#### Address enquiries to

#### Technical information

[office@ramsauer.eu](mailto:office@ramsauer.eu)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Advisory body

+43 (0) 1 406 43 43 (24h)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Eye Irrit. 2: H319 Causes serious eye irritation.  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.  
Skin Sens. 1: H317 May cause an allergic skin reaction.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

#### Hazard pictograms



#### Signal word

WARNING

#### Contains:

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

N-[3-(Trimethoxysilyl)propyl]ethylenediamine

#### Hazard statements

H412 Harmful to aquatic life with long lasting effects.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

#### Precautionary statements

P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.  
P337+P313 If eye irritation persists: Get medical advice / attention.  
P501 Dispose of contents/container in accordance with local/national regulation.

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### 2.3 Other hazards

Physico-chemical hazards	Contact with moisture liberates Methanol.
Environmental hazards	Does not contain any PBT or vPvB substances. Contains no ingredients with endocrine-disrupting properties.
Other hazards	Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - <3	3-(Trimethoxysilyl)propylamine CAS: 13822-56-5, EINECS/ELINCS: 237-511-5, Reg-No.: 01-2119510159-45-XXXX GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315
0.25 - <1	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate CAS: 1065336-91-5, EINECS/ELINCS: 915-687-0, Reg-No.: 01-2119491304-40-XXXX GHS/CLP: Skin Sens. 1A: H317 - Aquatic Chronic 1: H410 - Aquatic Acute 1: H400 - Repr. 2: H361f
0.1 - <1	N-[3-(Trimethoxysilyl)propyl]ethylenediamine CAS: 1760-24-3, EINECS/ELINCS: 217-164-6 GHS/CLP: Skin Sens. 1B: H317 - Eye Dam. 1: H318 - STOT SE 3: H335

Comment on component parts For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Seek medical advice immediately.

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

Irritant effects  
Allergic reactions

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	Dry powder. Foam. Carbon dioxide. Water spray jet.
Extinguishing media that must not be used	Full water jet.

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## 5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO<sub>x</sub>).

## 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

## 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

## 6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

## 6.4 Reference to other sections

See SECTION 8+13

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Use only in well-ventilated areas.

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep in a cool place. Store in a dry place.

Protect from heat/overheating.

Protect from atmospheric moisture and water.

## 7.3 Specific end use(s)

See product use, SECTION 1.2

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## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Eight hours: 200 ppm, 260 mg/m <sup>3</sup> , H

#### DNEL

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
Industrial, inhalative, Acute - systemic effects, 260 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 1 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 7.1 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 1.7 mg/m <sup>3</sup>
general population, inhalative, Acute - systemic effects, 50 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 8 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 0.5 mg/kg bw/day
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
Industrial, dermal, Long-term - systemic effects, 1.8 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 1.27 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 180 µg/kg bw/day
general population, dermal, Long-term - systemic effects, 900 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 310 µg/m <sup>3</sup>

#### PNEC

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
soil, 45 µg/kg soil dw
sediment (seawater), 120 µg/kg sediment dw
sediment (freshwater), 1.2 mg/kg sediment dw
sewage treatment plants (STP), 13 mg/L
seawater, 33 µg/L
freshwater, 330 µg/L
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
soil, 0.21 mg/kg soil dw
sediment (seawater), 0.11 mg/kg sediment dw
sediment (freshwater), 1.05 mg/kg sediment dw
sewage treatment plants (STP), 1 mg/L
seawater, 0 mg/L
freshwater, 0.002 mg/L

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	>0.7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Form</b>	pasty
<b>Color</b>	clear
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not applicable
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	not applicable
<b>Flash point [°C]</b>	not applicable
<b>Flammability</b>	not determined
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/cm³]</b>	not determined
<b>Relative density</b>	not determined
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	virtually insoluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	not determined
<b>Kinematic viscosity</b>	not applicable
<b>Relative vapour density</b>	not determined
<b>Evaporation speed</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature [°C]</b>	not applicable
<b>Decomposition temperature [°C]</b>	not determined
<b>Particle characteristics</b>	No information available.

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## 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7

### 10.5 Incompatible materials

not determined

### 10.6 Hazardous decomposition products

Contact with moisture liberates Methanol.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

Based on available data, the classification criteria are not met.

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
LD50, oral, Rat, 2.97 mL/kg bw, OECD 401
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LD50, oral, Rat, 2995 mg/kg
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
LD50, oral, Rat, 3230 mg/kg bw, OECD 423

#### Acute dermal toxicity

Based on available data, the classification criteria are not met.

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
LD50, dermal, Rabbit, 11.3 mL/kg bw, OECD 402
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LD50, dermal, Rat, > 2000 mg/kg
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
LD50, dermal, Rat, 3170 mg/kg bw, OECD 402

#### Acute inhalational toxicity

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

Irritant

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
Eye, Rabbit, OECD 405, corrosive
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Rabbit, OECD 405, Causes serious eye damage.
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
Eye, Rabbit, OECD 405, non-irritating

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
dermal, Rabbit, OECD 404, irritant
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Rabbit, OECD 404, Slight irritant effect - does not require labelling.
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
dermal, Rabbit, OECD 404, non-irritating

#### Respiratory or skin sensitisation

May produce an allergic reaction.

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
dermal, Guinea pig, OECD 406, non-sensitizing
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
dermal, mouse, OECD 429, sensitising

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dermal, Guinea pig, OECD 406, sensitising

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5

dermal, Guinea pig, OECD 406, sensitising

**Specific target organ toxicity — single exposure**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity — repeated exposure**

Based on available data, the classification criteria are not met.

Substance

3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5

NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 408, adverse effect observed

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

NOAEL, oral, Rat, > 500 mg/kg (28d), OECD 422, no adverse effect observed

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5

LOAEL, oral, 29 mg/kg bw/day

**Mutagenicity**

Does not contain a relevant substance that meets the classification criteria.

Substance

3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5

in vitro, OECD 471, negativ

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

in vitro, OECD 476, negativ

in vitro, OECD 471, negativ

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5

in vivo, OECD 474, negativ

in vitro, OECD 473, negativ

**Reproduction toxicity**

This product contains one or more substances of categorie Repr. 2 (CLP).  
(CAS: 1065336-91-5)

**- Fertility**

Substance

3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 414, no adverse effect observed

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

NOAEL, oral, Rat, >= 500 mg/kg, OECD 422

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5

NOAEL, oral, Rat, 300 mg/kg bw/day, OECD 415

**- Development**

Substance

3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 414, no adverse effect observed

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

NOAEL, oral, Rat, >= 500 mg/kg, OECD 422

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5

NOAEL, oral, Rat, 300 mg/kg bw/day, OECD 415



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<b>Carcinogenicity</b>	Does not contain a relevant substance that meets the classification criteria.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>General remarks</b>	Toxicological data of complete product are not available.

## 11.2 Information on other hazards

<b>11.2.1 Endocrine disrupting properties</b>	Contains no ingredients with endocrine-disrupting properties.
<b>11.2.2 Other information</b>	none

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
LC50, (96h), fish, 934 mg/L
EC50, (72h), Algae, >603 - 1000 mg/L
EC50, (48h), Daphnia magna, 331 mg/L
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LC50, (96h), Danio rerio, 597 mg/l
EC50, (16h), Pseudomonas putida, 67 mg/l
EC50, (48h), Daphnia magna, 81 mg/l
IC50, (72h), Algae, 8.8 mg/l (OECD 201)
NOEC, (14d), >= 1000 mg/kg (Eisenia fetida; OECD 207)
NOEC, (21d), Daphnia magna, > 1 mg/l
NOEC, (72h), Algae, 3.1 mg/l (OECD 201)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate, CAS: 1065336-91-5
LC50, (96h), Danio rerio, 0.9 mg/L
EC50, (72h), Algae, 1.68 mg/L
NOEC, (21d), Daphnia magna, 1 mg/L

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not determined

### 12.3 Bioaccumulative potential

not determined

### 12.4 Mobility in soil

not determined

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

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## 12.7 Other adverse effects

Ecological data of complete product are not available.  
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

For recycling, consult manufacturer.  
Disposal in an incineration plant in accordance with the regulations of the local authorities.

#### Waste no. (recommended)

080409\*

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

#### Waste no. (recommended)

150110\* packaging containing residues of or contaminated by hazardous substances  
150102

## SECTION 14: Transport information

### 14.1 UN number or ID number

#### Transport by land according to ADR/RID

not applicable

#### Inland navigation (ADN)

not applicable

#### Marine transport in accordance with IMDG

not applicable

Air transport in accordance with IATA not applicable

### 14.2 UN proper shipping name

#### Transport by land according to ADR/RID

NO DANGEROUS GOODS

#### Inland navigation (ADN)

NO DANGEROUS GOODS

#### Marine transport in accordance with IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

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#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EEC-REGULATIONS

2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148

#### - Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

#### - Annex I (REACH)

The product is not subject to Annex I restrictions.

#### - Annex XIV (REACH)

According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances  $\geq 0.1\%$  that are subject to authorisation.

#### - Annex XVII (REACH)

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains  $\geq 0.1\%$  of substances with the following restrictions. 20, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions.  
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#### TRANSPORT-REGULATIONS

ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

#### NATIONAL REGULATIONS (EU):

#### - Observe employment restrictions for people

Observe employment restrictions for young people.

#### - VOC (2010/75/CE)

0 %

### 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

H335 May cause respiratory irritation.

H361f Suspected of damaging fertility.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

This document does not comply with Regulation (EC) No 1907/2006, article 31 (5) and may be used for internal purposes only.

### Classification procedure

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)  
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

### Modified position

SECTION 6 been added: Use personal protective equipment (protective gloves, safety glasses, protective clothing).

SECTION 9 been added: liquid

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