

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

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Version 1.0

Page 1 / 14

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

### 1.1 Product identifier

**Anschlussfuge 315**

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

#### 1.2.1 Relevant uses

Silicon

#### 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.

### 2.2 Label elements

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

#### Hazard pictograms



#### Signal word

WARNING

#### Hazard statements

H319 Causes serious eye irritation.

#### Precautionary statements

P280 Wear eye protection / face protection.

#### Special labelling

Contains: N-[3-(Trimethoxysilyl)propyl]ethylenediamine, 3-Aminopropyltriethoxysilane.  
EUH208 May produce an allergic reaction.

### 2.3 Other hazards

#### Human health dangers

Contact with moisture liberates Methanol and Ethanol.

#### 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	Tetraethyl silicate CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332 - Eye Irrit. 2: H319 - STOT SE 3: H335
1 - <2	N-[3-(Trimethoxysilyl)propyl]cyclohexylamine CAS: 3068-78-8, EINECS/ELINCS: 221-329-8 GHS/CLP: Eye Dam. 1: H318
1 - <2	3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated CAS: 128446-60-6, EINECS/ELINCS: Polymer GHS/CLP: Flam. Liq. 3: H226 - Skin Irrit. 2: H315 - Eye Dam. 1: H318
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
0.1 - <1	3-Aminopropyltriethoxysilane CAS: 919-30-2, EINECS/ELINCS: 213-048-4, EU-INDEX: 612-108-00-0, Reg-No.: 01-2119480479-24-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Skin Sens. 1: H317

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

Foam.  
Dry powder.  
Water spray jet.  
Carbon dioxide.

#### Extinguishing media that must not be used

Full water jet.

### 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 (NOx).

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0

Page 3 / 14

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

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

## 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 with 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 in a cool place. Store in a dry place.

Protect from heat/overheating.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0

Page 4 / 14

**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
Tetraethyl silicate
CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX
Eight hours: 5 ppm, 44 mg/m <sup>3</sup>
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
Tetraethyl silicate, CAS: 78-10-4
Industrial, inhalative, Acute - systemic effects, 85 mg/m <sup>3</sup>
Industrial, inhalative, Acute - local effects, 85 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 12.1 mg/kg bw/d
Industrial, inhalative, Long-term - local effects, 85 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 85 mg/m <sup>3</sup>
Industrial, dermal, Acute - systemic effects, 12.1 mg/kg bw/d
general population, dermal, Acute - systemic effects, 8.4 mg/kg bw/d
general population, inhalative, Acute - local effects, 25 mg/m <sup>3</sup>
general population, inhalative, Acute - systemic effects, 25 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 25 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 25 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 8.4 mg/kg bw/d
3-Aminopropyltriethoxysilane, CAS: 919-30-2
Industrial, dermal, Acute - systemic effects, 8.3 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 59 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 8.3 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 5 mg/kg bw/d (AF=10)
general population, inhalative, Long-term - systemic effects, 17.4 mg/m <sup>3</sup> (AF=10)
general population, dermal, Acute - systemic effects, 5 mg/kg bw/d (AF=10)
N-[3-(Trimethoxysilyl)propyl]cyclohexylamine, CAS: 3068-78-8
Industrial, inhalative, Long-term - systemic effects, 16.5 mg/m <sup>3</sup>
Industrial, inhalative, Acute - systemic effects, 260 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 260 mg/m <sup>3</sup>
Industrial, inhalative, Acute - local effects, 260 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 2.33 mg/kg bw/day
general population, oral, Long-term - systemic effects, 830 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 2.9 mg/m <sup>3</sup>
general population, inhalative, Acute - systemic effects, 50 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 50 mg/m <sup>3</sup>
general population, inhalative, Acute - local effects, 50 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 830 µg/kg bw/day

**PNEC**

Substance
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Tetraethyl silicate, CAS: 78-10-4
seawater, 0.0192 mg/l
sediment, 0.18 mg/kg dw
sediment (freshwater), 0.18 mg/kg
sediment (seawater), 0.018 mg/kg
sediment (seawater), 0.083 mg/kg dw
sediment (freshwater), 0.83 mg/kg dw
soil, 0.05 mg/kg dw
sewage treatment plants (STP), 4000 mg/l
freshwater, 0.192 mg/l
3-Aminopropyltriethoxysilane, CAS: 919-30-2
sewage treatment plants (STP), 13 mg/L (AF=1)
seawater, 0.033 mg/L (AF=10 000)
sediment (freshwater), 1.2 mg/kg dw
sediment (seawater), 0.12 mg/kg dw
soil, 0.05 mg/kg dw
freshwater, 0.33 mg/L (AF=1000)
N-[3-(Trimethoxysilyl)propyl]cyclohexylamine, CAS: 3068-78-8
soil, 13 µg/kg soil dw
freshwater, 40.71 µg/L
seawater, 4.07 µg/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 184.4 µg/kg sediment dw
sediment (freshwater), 18.4 µg/kg sediment dw

## 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. Do not inhale vapours. 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, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	no
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0

Page 6 / 14

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	pasty
Color	various
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not determined
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm <sup>3</sup> ]	not determined
Relative density	not determined
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not determined
Kinematic viscosity	not applicable
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	150 - 180
Particle characteristics	No information available.

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7.2.  
Contact with moisture.

**Ramsauer GmbH & Co KG**  
**5350 Strobl / Wolfgangsee**

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0

Page 7 / 14

### 10.5 Incompatible materials

Strong oxidizing agent.

### 10.6 Hazardous decomposition products

Contact with moisture liberates Methanol and Ethanol.

In the case of heating (150-180°C) following modest (decomposition) products may occur:

Formaldehyde.

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0

Page 8 / 14

## 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.

Product
oral, Based on the available information, the classification criteria are not fulfilled.

Substance
Tetraethyl silicate, CAS: 78-10-4
LD50, oral, Rat, > 2500 mg/kg (OECD TG 423)
NOAEL, oral, Rat, 10 mg/kg (28 d) (OECD TG 422)
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LD50, oral, Rat, 1457 mg/kg / 1.57 mL/kg, OECD 401
LD50, oral, Rat, 2660 mg/kg / 2.83 mL/kg, OECD 401
N-[3-(Trimethoxysilyl)propyl]cyclohexylamine, CAS: 3068-78-8
LD50, oral, Rat, >2000 mg/kg bw, OECD 401
LC50, inhalative, Rat, 1.6 - 2.3 mg/L air, OECD 403, 4h
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LD50, oral, Rat, 2995 mg/kg

#### Acute dermal toxicity

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

Product
dermal, Based on the available information, the classification criteria are not fulfilled.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LD50, dermal, Rabbit, 4076 mg/kg / 4.29 mL/kg, OECD 402
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LD50, dermal, Rat, > 2000 mg/kg

#### Acute inhalational toxicity

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

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.

Substance
Tetraethyl silicate, CAS: 78-10-4
LC50, inhalative, Rat, 10 - 16 mg/l (OECD TG 403)
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LC50, inhalation (vapour), Rat (male), > 5 ppm/6h (OECD 403)
LC50, inhalation (vapour), Rat (female), > 16 ppm/6h (OECD 403)

#### Serious eye damage/irritation

Irritant

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
Rabbit (eye), OECD 405, Causes serious eye damage.
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Rabbit, OECD 405, Causes serious eye damage.

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
Rabbit, OECD 404, corrosive
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Rabbit, OECD 404, Slight irritant effect - does not require labelling.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.  
May cause an allergic skin reaction.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
dermal, Guinea pig, OECD 406, sensitising
N-[3-(Trimethoxysilyl)propyl]cyclohexylamine, CAS: 3068-78-8
dermal, Guinea pig, OECD 406, non-sensitizing
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
dermal, mouse, OECD 429, sensitising
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-Aminopropyltriethoxysilane, CAS: 919-30-2
NOAEL, oral, Rat, 200 mg/kg (90d; 7d/w), OECD 408, no adverse effect observed
LOAEC, inhalativ (mist), Rat, 0.147 mg/l (28d; 5d/w; 6h/d)
N-[3-(Trimethoxysilyl)propyl]cyclohexylamine, CAS: 3068-78-8
NOAEL, oral, Rat, 500 mg/kg bw/day, OECD 422
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
NOAEL, oral, Rat, > 500 mg/kg (28d), OECD 422, no adverse effect observed

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

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
in vivo, OECD 474, negativ
in vitro, OECD 476, negativ
in vitro, OECD 471, negativ
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
in vitro, OECD 476, negativ
in vitro, OECD 471, negativ

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

- Fertility

Substance
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
NOAEL, oral, Rat, >= 500 mg/kg, OECD 422

- Development

Substance
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Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0

Page 10 / 14

3-Aminopropyltriethoxysilane, CAS: 919-30-2

NOAEL, 100 mg/kg

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

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

#### Carcinogenicity

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

Substance

3-Aminopropyltriethoxysilane, CAS: 919-30-2

NOAEL, dermal, mouse, > 43.8 mg/w (2a; 3d/w), no adverse effect observed

#### Aspiration hazard

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

#### General remarks

Toxicological data of complete product are not available.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

#### 11.2.2 Other information

none

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance

Tetraethyl silicate, CAS: 78-10-4

LC50, (96h), Brachidanio rerio, > 245 mg/l (OECD TG 203)

EC50, (48h), Daphnia magna, > 75 mg/l (OECD TG 202)

EC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD TG 201)

NOEC, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD TG 201)

NOEC, (48h), Daphnia magna, > 75 mg/l (OECD TG 202)

NOEC, (96h), Brachidanio rerio, > 245 mg/l (OECD TG 203)

3-Aminopropyltriethoxysilane, CAS: 919-30-2

LC50, (96h), Danio rerio, > 934 mg/l (OECD 203)

EC50, (72h), Pseudokirchneriella subcapitata, > 1000 mg/l (OECD 201)

EC50, (48h), Daphnia magna, 331 mg/l (OECD 202)

N-[3-(Trimethoxysilyl)propyl]cyclohexylamine, CAS: 3068-78-8

LC50, (96h), Danio rerio, > 100 mg/l

EC50, (72h), Algae, 40.71 mg/L

EC50, (3h), Water microorganisms, 1 g/L

EC50, (48h), Daphnia sp., 210 mg/L

NOEC, (72h), Algae, 16.88 mg/L

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

LC50, (96h), Danio rerio, 597 mg/l

EC50, (48h), Daphnia magna, 81 mg/l

EC50, (16h), Pseudomonas putida, 67 mg/l

IC50, (72h), Algae, 8.8 mg/l (OECD 201)

NOEC, (14d), >= 1000 mg/kg (Eisenia fetida; OECD 207)

NOEC, (72h), Algae, 3.1 mg/l (OECD 201)

NOEC, (21d), Daphnia magna, > 1 mg/l

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0

Page 11 / 14

## 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

## 12.3 Bioaccumulative potential

not determined

## 12.4 Mobility in soil

not applicable

## 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.

## 12.7 Other adverse effects

Ecological data of complete product are not available.

## 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)** 070216\*

#### 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

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0

Page 12 / 14

#### 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"

#### 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

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0

Page 13 / 14

## 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. 40, 75  
According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.

#### 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)

H314 Causes severe skin burns and eye damage.  
H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H315 Causes skin irritation.

H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H226 Flammable liquid and vapour.

## 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)

### Modified position

SECTION 8 been added: 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.

SECTION 8 been added: Protective clothing (EN 340)

SECTION 8 deleted: Not required under normal conditions.

SECTION 8 been added: Butyl rubber, >480 min (EN 374-1/-2/-3).

SECTION 9 been added: liquid

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.

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