

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Objektbau 135

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Sealing material

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet****Company**

Ramsauer GmbH & Co KG  
 Sarstein 17  
 4822 Bad Goisern / H. / AUSTRIA  
 Phone +43(0)6135 8205-0  
 Fax +43(0)6135 8205-250  
 Homepage www.ramsauer.at  
 E-mail office@ramsauer.at

**Address enquiries to****Technical information**

office@ramsauer.at

**Safety Data Sheet**

sdb@chemiebuero.de

**1.4 Emergency telephone number****Advisory body**

Call NHS 111 or a doctor

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture [REGULATION (GB) CLP]**

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

**2.3 Other hazards****Human health dangers**

Contact with moisture liberates Methanol and Ethanol.  
 Frequent persistent contact with the skin can cause skin irritation.

**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   |
|-----------|---|
| 50 - <10  | Polydimethylsiloxan, (((3-(cyclohexylamino)propyl)dimethoxysilyloxy)-terminated                 |
|           | CAS: 129968-18-9, EINECS/ELINCS: Polymer  |
|           | GHS/CLP: Eye Irrit. 2: H319   |
| 1 - <3    | N-[3-(Trimethoxysilyl)propyl]cyclohexylamine]   |
|           | CAS: 3068-78-8, EINECS/ELINCS: 221-329-8  |
|           | GHS/CLP: Eye Dam. 1: H318   |
| 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       |
| 0.1 - <1  | N-[3-(Trimethoxysilyl)propyl]ethylenediamine  |
|           | CAS: 1760-24-3, EINECS/ELINCS: 217-164-6, Reg-No.: 01-2119970215-39-XXXX                        |
|           | GHS/CLP: Eye Dam. 1: H318 - Skin Sens. 1: H317 - STOT SE 3: H335 - STOT RE 2: H373              |

**Comment on component parts**

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

In case of contact with skin wash off immediately 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**

Headache  
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**

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

**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).

### 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.

### 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.

Do not eat, drink, smoke or take drugs at work.

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.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection****8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

|  |
|--|
| Substance  |
| Amorphus Silica  |
| CAS: 112945-52-5, EINECS/ELINCS: 231-545-4, Reg-No.: 01-2119379499-16-XXXX |
| Long-term exposure: 6 mg/m <sup>3</sup> , total inhalable dust             |

**DNEL**

|  |
|--|
| Substance  |
| 3-Aminopropyltriethoxysilane, CAS: 919-30-2  |
| Industrial, inhalative, Long-term - systemic effects, 59 mg/m <sup>3</sup>                   |
| Industrial, dermal, Long-term - systemic effects, 8.3 mg/kg bw/d                             |
| Industrial, dermal, Acute - systemic effects, 8.3 mg/kg bw/d                                 |
| general population, inhalative, Long-term - systemic effects, 17.4 mg/m <sup>3</sup> (AF=10) |
| general population, dermal, Long-term - systemic effects, 5 mg/kg bw/d (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, dermal, Long-term - systemic effects, 2.33 mg/kg bw/day                          |
| Industrial, inhalative, Acute - local effects, 260 mg/m <sup>3</sup>                         |
| Industrial, inhalative, Long-term - local effects, 260 mg/m <sup>3</sup>                     |
| Industrial, inhalative, Acute - systemic effects, 260 mg/m <sup>3</sup>                      |
| Industrial, inhalative, Long-term - systemic effects, 16.5 mg/m <sup>3</sup>                 |
| general population, inhalative, Long-term - local effects, 50 mg/m <sup>3</sup>              |
| general population, dermal, Long-term - systemic effects, 830 µg/kg bw/day                   |
| general population, inhalative, Acute - local effects, 50 mg/m <sup>3</sup>                  |
| 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, oral, Long-term - systemic effects, 830 µg/kg bw/day                     |
| N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3                                 |
| Industrial, inhalative, Acute - local effects, 5.36 µg/m <sup>3</sup>                        |
| Industrial, inhalative, Long-term - local effects, 600 µg/m <sup>3</sup>                     |
| Industrial, inhalative, Acute - systemic effects, 260 mg/m <sup>3</sup>                      |
| Industrial, inhalative, Long-term - systemic effects, 260 mg/m <sup>3</sup>                  |
| general population, oral, Long-term - systemic effects, 8 mg/kg bw/day                       |
| general population, inhalative, Acute - systemic effects, 50 mg/m <sup>3</sup>               |
| general population, inhalative, Long-term - systemic effects, 50 mg/m <sup>3</sup>           |

**PNEC**

|   |
|---|
| Substance                                     |
| 3-Aminopropyltriethoxysilane, CAS: 919-30-2   |
| seawater, 0.033 mg/L (AF=10 000)              |
| sewage treatment plants (STP), 13 mg/L (AF=1) |
| 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 |
| sediment (freshwater), 184.4 µg/kg sediment dw               |
| freshwater, 40.71 µg/L                                       |
| sewage treatment plants (STP), 10 mg/L                       |
| sediment (freshwater), 18.4 µg/kg sediment dw                |
| soil, 13 µg/kg soil dw                                       |
| seawater, 4.07 µg/L  |
| N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3 |
| soil, 0.009 mg/kg dw   |
| freshwater, 0.062 mg/L (AF= 50)                              |
| seawater, 0.006 mg/L (AF= 500)                               |
| sewage treatment plants (STP), 25 mg/L                       |
| sediment (freshwater), 0.22 mg/kg dw                         |
| sediment (seawater), 0.022 mg/kg dw                          |

## 8.2 Exposure controls

|  |  |
|--|--|
| <b>Additional advice on system design</b>                          | Ensure adequate ventilation on workstation.<br>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).<br>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.<br>Do not inhale vapours.<br>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.<br>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**

|   |                           |
|---|---------------------------|
| Physical state                          | 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 (solid, gas) [°C]          | 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> ]            | ca .1                     |
| 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] | not determined            |
| Kinematic viscosity                     | not applicable            |
| Relative vapour density                 | not determined            |
| Evaporation speed                       | not determined            |
| Melting point [°C]                      | not determined            |
| Auto-ignition temperature               | not applicable            |
| Decomposition temperature [°C]          | not determined            |
| Particle characteristics                | No information available. |

**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**

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.

**10.5 Incompatible materials**

not determined

#### 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.

**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-Aminopropyltriethoxysilane, CAS: 919-30-2   |
| LD50, oral, Rat (female), 1.57 mL/kg (OECD 401)   |
| LD50, oral, Rat (male), 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   |
| Polydimethylsiloxan, (((3-(cyclohexylamino)propyl)dimethoxysilyloxy)-terminated, CAS: 129968-18-9 |
| LD50, oral, Rat, > 2000 mg/kg   |
| N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3                                      |
| LD50, oral, Rat, 2295 mg/kg bw  |

**Acute dermal toxicity**

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

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

**Acute inhalational toxicity**

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

|   |
|---|
| Substance   |
| 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) |
| N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3    |
| LC50, inhalative, Rat, 1.49 -2.44 mg/L, 4h                      |

**Serious eye damage/irritation**

Irritant

|  |
|--|
| Substance  |
| N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3 |
| Rabbit, OECD 405, corrosive                                  |

**Skin corrosion/irritation**

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

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

|  |
|--|
| Substance  |
| 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, 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  |
| 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 |
| NOAEC, inhalative, Rat, 15 mg/m <sup>3</sup> , OECD 422      |

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

|  |
|--|
| Substance  |
| N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3 |
| Ames-test, negativ   |

**Reproduction toxicity** This product contains one or more substances of categorie Repr. 2 (CLP).  
CAS: 3648-18-8

|  |
|--|
| Substance  |
| N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3 |
| NOAEL, oral, Rat, 750 mg/kg bw/day, OECD 422                 |

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

**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

**Endocrine disrupting properties** Contains no ingredients with endocrine-disrupting properties.

**Other information** none

## SECTION 12: Ecological information

### 12.1 Toxicity

|  |
|--|
| Substance  |
| 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, (3h), Water microorganisms, 1 g/L                              |
| EC50, (72h), Algae, 40.71 mg/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 (Lit.)                            |
| EC50, (16h), Pseudomonas putida, 67 mg/l (Lit.)                      |
| EC50, (48h), Daphnia magna, 81 mg/l (Lit.)                           |
| IC50, (72h), Algae, 8.8 mg/l (OECD 201)                              |
| NOEC, (21d), Daphnia magna, > 1 mg/l (Lit.)                          |
| NOEC, (72h), Algae, 3.1 mg/l (OECD 201)                              |

**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 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.

**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"

**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

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

|  |   |
|--|---|
| <b>EEC-REGULATIONS</b>                       | 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 |
| <b>TRANSPORT-REGULATIONS</b>                 | ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)  |
| <b>NATIONAL REGULATIONS (GB):</b>            | EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.  |
| - 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)**

H373 May cause damage to the respiratory system through prolonged or repeated exposure through inhalation.  
H335 May cause respiratory irritation.  
H317 May cause an allergic skin reaction.  
H314 Causes severe skin burns and eye damage.  
H302 Harmful if swallowed.

H318 Causes serious eye damage.  
H319 Causes serious eye irritation.

**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****Classification procedure**

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

**Modified position**

none

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