

## SAFETY DATA SHEET

(KROWN) **STREAKLESS GLASS CLEANER**  
Product code: MD74CR  
Issued on: 19.04.2012  
Revised: 12.06.2014 Version 1.1

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### 1. MATERIAL / MIXTURE AND ORGANIZATION / COMPANY IDENTIFICATION

#### 1.1. Product identification

KROWN STREAKLESS GLASS CLEANER  
KROWN GLASS CLEANER

#### 1.2. The intended usages of the material or mixture and those not recommended

Vehicle glass cleaner

#### 1.3. Information about the supplier of the safety data sheet

**Manufacturer:** SIA KROWN EU  
Ganību dambis 25f, Rīga, LV 1005, Latvia  
**Telephone:** +371 67491330  
**Fax:** +371 67491331  
**E-mail:** info@krowneurope.com  
**Website:** www.krowneurope.com

#### 1.4. Telephone for emergency situations

State fire and rescue service: 01, 112  
State police: 02, 112  
Emergency medical assistance service: 03, 113  
State Poison Centre Drug and Poison Information Centre: +371 67042473  
Manufacturer: +371 67491330

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the material/ mixture

**Classification in accordance with Regulation of the Council 67/548/EEC and Directive 1999/45/EC**

Not classified.

**Classification in accordance with Regulation (EC) No. 1272/2008**

Physical and chemical hazards Not classified.  
Human health Not classified.  
Environment Not classified.

#### 2.2. Label elements

**Labelling in accordance to Regulation (EC) No.1272/2008**

**Hazards pictograms:**

Not required

**Signal word:**

Not required

**Hazard statements:**

No

**Precautionary statements:**

P102 Keep away from children

P301+P312 IF SWALLOWED, contact Poison Centre / doctor /, if you feel unwell.

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**Content:** 2-butoxyethanol; methanol

### 2.3. Other hazards

The mixture does not correspond to *PBT* or *vPvB* criteria.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Composition

Not applicable.

### 3.2. Mixtures

| N a m e s o f components | CAS No.  | EINECS No. | RERACH registration No. | Concentration, % of weight | Classification  |
|--------------------------|----------|------------|-------------------------|----------------------------|---|
| 2-butoxyethanol          | 111-76-2 | 203-905-0  |                         | 1-5%                       | Xn; R20/21/22<br>Xi; R36/38<br>-----<br>Acute Tox. 4; H332, H312, H302<br>Eye Irrit. 2; H319<br>Skin Irrit. 2; H315   |
| Methanol                 | 67-56-1  | 200-659-6  |                         | 1-5%                       | F; R11. T; R23/24/25-39/23/24/25<br><b>Ja 3 % ≤ C &lt; 10 %:</b><br>F; R11. Xn; R68/20/21/22<br>-----<br>Flam Liq.2; H225<br>Acute Tox.3; H331, H311, H301<br>STOT SE 1; H370<br><b>If 3 % ≤ C &lt; 10 %:</b><br>Flam Liq.2; H225<br>Acute Tox.3; H331, H311, H301<br>STOT SE 2; H371 |

#### Additional information:

Please see full R phrases and H statements in Section 16.

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Inhalation

Move the victim in fresh air. Seek medical attention.

#### Eye contact

Immediately rinse with large amount of water. Before rinsing, make sure there are no contact lenses in the eyes. Keep the eyelids open during rinsing. If the irritation remains, seek medical attention.

#### Skin contact

Wash contact area with water. If the irritation remains, seek medical attention.

#### Ingestion

If accidentally swallowed, rinse mouth with water. Drink a lot of water. Do not induce vomiting. Do not give anything orally to an unconscious person. Immediately seek medical attention.

#### Personal protective equipment of first aid provider

No other relevant information available.

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

Accidental ingestion of large quantities may cause disorientation, dizziness, headache, nausea, cramps. Symptoms and effects may be delayed by 18 to 24 hours, in some cases, up to 72 hours.

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

No other relevant information about the effects of the mixture available.

## 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### General directions

Non-flammable

#### Suitable extinguishing media

Use water spray, dry chemicals, carbon dioxide, foam. Select the appropriate extinguishing media based on the circumstances.

#### Non-suitable extinguishing media

Not indicated.

### 5.2. Special hazards arising from the substance or mixture

No special hazards arising from the substance or mixture indicated.

### 5.3. Advice for fire fighters

No advice for fire fighters indicated.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

No special procedures indicated.

### 6.2. Environmental precautions

Immediately inform the responsible environmental services about the accident. Prevent release to the environment.

### 6.3. Methods and material for containment and cleaning up

#### Small spills

Rinse with water.

#### Large spills

Collect with absorbing material or collect with damp napkin or mop and transfer for disposal.

### 6.4. Reference to other sections

For waste disposal see Section 13, personal protective equipment indicated in Section 8.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Prevent eye and skin contact. Not to be taken internally.

### 7.2. Conditions for safe storage, including any incompatibilities

Prevent freezing.

### 7.3. Specific end use(s)

Vehicle glass cleaner.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1. Control parameters

#### 8.1.1. Exposure limit values

| Name of the component | 8 h OEL<br>mg/m <sup>3</sup> | 8h OEL ppm | 15 min OEL<br>mg/m <sup>3</sup> | 15 min OEL<br>ppm | Notes |
|-----------------------|------------------------------|------------|---------------------------------|-------------------|-------|
| 2-butoxyethanol       | 98                           | 20         | 20                              | 50                | Skin  |
| Methanol              | 260                          | 200        | -                               | -                 | Skin  |

*OEL – occupational exposure limit values in accordance to Annex 1, Cabinet of Ministers' Regulations No. 325 of 15.05.2007*

Note "Skin" by the occupational exposure limit value indicate that the material is absorbed through skin.  
 EU: Occupational exposure limit values for the contents of the mixture correspond to those approved in the Republic of Latvia.

#### 8.1.2. Derived No Effect Levels (DNEL) and Prescribed No Effect Concentration (PNEC) Derived No Effect Levels (DNEL)

| <b>2-butoxyethanol, CAS No. 111-76-2<br/>DNEL</b> |                          |   |                            |                               |
|---|--------------------------|---|----------------------------|-------------------------------|
| Type of exposure                                  | <b>Contractors</b>       |   |                            |                               |
|   | Acute exposure,<br>local | Acute exposure,<br>systemic                             | Chronic exposure,<br>local | Chronic exposure,<br>systemic |
| Inhalation  | 246 mg/m <sup>3</sup>    | 663 mg/m <sup>3</sup>                                   | Data not available         | 98 mg/m <sup>3</sup>          |
| Dermal  | 89mg/kg                  | Data not available                                      | 75mg/kg                    | Data not available            |
| <b>2-butoxyethanol, CAS No. 111-76-2<br/>DNEL</b> |                          |   |                            |                               |
| Type of exposure                                  | <b>End-users</b>         |   |                            |                               |
|   | Acute exposure,<br>local | Acute exposure,<br>systemic                             | Chronic exposure,<br>local | Chronic exposure,<br>systemic |
| Per oral  | 13.4 mg/kg               | Data not available                                      | 3.2 mg/kg                  | Data not available            |
| Inhalation  | 246 mg/m <sup>3</sup>    | Data not available                                      | 123 mg/m <sup>3</sup>      | 49 mg/m <sup>3</sup>          |
| <b>2-butoxyethanol, CAS No. 111-76-2<br/>PNEC</b> |                          |   |                            |                               |
| Environmental objective                           |                          | PNEC value  |                            |                               |
| Freshwater  |                          | 8.8 mg/l  |                            |                               |
| Freshwater sediments                              |                          | 8.14 mg/kg  |                            |                               |
| Seawater  |                          | 0.88 mg/l   |                            |                               |
| Seawater sediments                                |                          | Hazards have been identified, but no PNEC are available |                            |                               |
| Food chain  |                          | Hazards have been identified, but no PNEC are available |                            |                               |
| Micro-organisms in sewage treatment systems       |                          | 463 mg/l  |                            |                               |
| Soil (farming)                                    |                          | 2.8 mg/kg   |                            |                               |
| Air   |                          | Hazards have been identified, but no PNEC are available |                            |                               |

Additional occupational exposure limits, that may cause possible harm during processing:

| <b>2-butoxyethanol, CAS No. 111-76-2</b>                  |
|---|
| NOAEL 100 mg/l (daphnia) (21 d., Daphnia magna; OECD 211) |
| > 100 mg/l (fish) (21 d., Brachydanio rerio)              |

| <b>Methanol, CAS No. 67-56-1<br/>DNEL</b> |
|---|
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| Type of exposure                            | Contractors                                   |   |                         |                            |
|---|---|---|-------------------------|----------------------------|
|   | Acute exposure, local                         | Acute exposure, systemic                                | Chronic exposure, local | Chronic exposure, systemic |
| Inhalation                                  | Data not available                            | 260 mg/m <sup>3</sup>                                   | Data not available      | 260 mg/m <sup>3</sup>      |
| Dermal                                      | Data not available                            | 40mg/kg of weight per day                               | Data not available      | 40mg/kg of weight per day  |
| <b>Methanol, CAS No. 67-56-1</b>            |   |   |                         |                            |
| <b>DNEL</b>                                 |   |   |                         |                            |
| Type of exposure                            | End-users                                     |   |                         |                            |
|   | Acute exposure, local                         | Acute exposure, systemic                                | Chronic exposure, local | Chronic exposure, systemic |
| Per oral                                    | No data whether hazards have been identified. |   |                         |                            |
| Inhalation                                  | Data not available                            | 50mg/m <sup>3</sup>                                     | Data not available      | 50 mg/m <sup>3</sup>       |
| Dermal                                      | Data not available                            | 8mg/kg of weight per day                                | Data not available      | 8mg/kg of weight per day   |
| <b>Methanol, CAS No. 67-56-1</b>            |   |   |                         |                            |
| <b>PNEC</b>                                 |   |   |                         |                            |
| Environmental objective                     |   | PNEC value  |                         |                            |
| Freshwater                                  |   | 154mg/l   |                         |                            |
| Freshwater sediments                        |   | 570.4 mg/kg dw  |                         |                            |
| Seawater                                    |   | 15.4 mg/l   |                         |                            |
| Seawater sediments                          |   | 57.04 mg/kg dw  |                         |                            |
| Water (irregular leaks)                     |   | 1540 mg/l   |                         |                            |
| Food chain                                  |   | Hazards have been identified, but no PNEC are available |                         |                            |
| Micro-organisms in sewage treatment systems |   | 100 mg/l  |                         |                            |
| Soil (farming)                              |   | 23.0 mg/kg dw   |                         |                            |
| Air   |   | Hazards have been identified, but no PNEC are available |                         |                            |

## 8.2. Exposure controls

### 8.2.1. Adequate technical management

**General instructions:** Preventive measures – minimize exposure to the effects of liquid, vapour, mist or fumes. In case of emergency, see Section 6.

**Technical measures:** Local exhaust ventilation.

### 8.2.2. Such individual protection measures as personal protective equipment

The selection of personal protective equipment may differ based on the circumstances of use.

**Eye/face protection:** If possible eye contact, use goggles (EN166).

**Hand protection:** For normal use, not required. Nitrile protective gloves (EN374) recommended.

**Body protection:** For normal use, not required. Work clothing recommended (for example, safety footwear and long-sleeved protective clothing in correspondence to EN ISO 20345 requirements).

**Respiratory protection:** For normal use, not required. When exceeding occupational exposure limit (OEL): Filter A (EN 14387), identification colour – brown.

**Thermal hazards:** Not applicable.

**Electrostatic hazards:** Use appropriate grounding procedures.

Additional information about safe handling of products with static charge accumulation potential can be found in Directive 1999/92/EC of the European Parliament and of the Council on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.

**Hygienic measures:** Recommended to comply with the general safety and personal hygienic measures, when handling chemical substances. Wash hands before breaks and after work.

### 8.2.3. Environmental risk management

Information not available

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

|  |                        |
|--|------------------------|
| a) appearance  | Light blue liquid.     |
| b) odour   | Data not available     |
| c) odour threshold                                   | Not specified          |
| d) pH  | 7.5-8.5                |
| e) melting / freezing point                          | 0 °C                   |
| f) boiling temperature and boiling temperature range | 97 °C                  |
| g) flash temperature                                 | >185°C COC             |
| h) evaporation rate (water=1)                        | >1                     |
| i) flammability (for solids, gasses)                 | Not applicable         |
| j) upper/ lower flammability or explosive limit      | Not applicable         |
| k) vapour pressure (mm Hg)                           | Data not available     |
| l) vapour density (air=1)                            | Heavier than air       |
| m) relative density                                  | 0.98 g/cm <sup>3</sup> |
| n) solubility in water                               | Outstanding            |
| o) partition coefficient: n-octanol/water            | Data not available     |
| p) ignition temperature                              | Not applicable         |
| q) degradation temperature                           | Data not available     |
| r) viscosity   | Data not available     |
| s) explosion hazard                                  | Data not available     |
| t) oxidation properties                              | Data not available     |

#### 9.2. Other information

### 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

No hazardous reactions

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization: does not take place.

#### 10.4. Conditions to avoid

Do not store with strong acids and powerful oxidisers. Prevent freezing.

#### 10.5. Incompatible materials

Strong acids and powerful oxidisers.

#### 10.6. Hazardous decomposition products

Carbon oxides.

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### 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological information

##### a) acute toxicity

No data available regarding toxicity of the mixture.

##### Component toxicity

##### 2-butoxyethanol, CAS No. 111-76-2

##### Acute toxicity

LD50 – 470 mg/kg (rat, ingestion)

LD50 – 220 mg/kg (rabbit, through skin)

LC50 – 2 mg/l/4h (rat, inhalation)

##### Methanol, CAS No. 67-56-1

##### Acute toxicity

LD50 – 5628 mg/kg (rat, ingestion)

LD50 – 15800 mg/kg (rabbit, through skin)

LC50 – 83.2 mg/l/4h (rat, inhalation)

LC50 – 64000 ppm/4h (rat, inhalation)

##### b) caustic irritation

Repeated exposure may cause mild skin and mucus irritation.

##### c) serious eye damage/ irritation

Mixture may irritate eyes.

##### d) respiratory or skin sensitization

No data available regarding sensitizing effect of the mixture or components.

##### e) germ cell mutagenicity

No data available regarding mutagenic effect of the mixture or components.

##### f) carcinogenicity

No data available regarding carcinogenic effect of the mixture or components.

##### g) reproductive toxicity

No data available regarding reproductive toxicity of the mixture or components.

##### h) Specific target organ toxicity, single exposure

No data available regarding toxicity of the mixture.

##### Methanol, CAS No. 67-56-1

May cause organ damage. Target organs – eyes, central nervous system.

##### i) specific target organ toxicity, repeated exposure

No data available regarding toxicity of the mixture.

##### Methanol, CAS No. 67-56-1

Methanol poisoning in humans may cause metabolic acidoses and eye damage due to its decomposition into formaldehyde and formic acid.

##### j) hazards caused by inhalation

No data available regarding inhalation hazards of the mixture.

##### Methanol, CAS No. 67-56-1

In pure form toxic when inhaled, may cause respiratory system irritation.

### 12. ECOLOGICAL INFORMATION

#### 12.1. Toxicity

No data available regarding toxicity of the mixture.

##### Methanol, CAS No. 67-56-1

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### Acute toxicity

#### Fish

LC50 (96 h) 15,400 mg/l, *Lepomis macrochirus* (Bluegill [flowing])  
LC50 (96 h) 28200 mg/l, *Pimephales promelas* (Fathead minnow [flowing])  
LC50 (96 h) > 100 mg/l, *Pimephales promelas* (Fathead minnow [standing])  
LC50 (48 h) > 10000 mg/l, *Leuciscus idus* (Ide)

#### Aquatic invertebrates

EC50 (48h) > 10 000 mg/l, *Daphnia magna* (DIN 38412, Section 11, standing)

#### Aquatic plants:

EC50 (96h) appr. 22,000 mg/l (growth rate), *Selenastrum capricornutum*, (OECD guidelines 201, standing)

#### Micro-organisms/ effect on active sludge:

EC50 (24h) 880 mg/l, *Nitrosomonas sp.* (nitrification inhibition, aquatic environment)

#### Soil-dwelling organisms:

LC50 (48h) >1mg/cm<sup>2</sup>, *Eisenia foetida* (OECD guidelines 207, filter paper)

#### Waste water treatment plants:

EC50 (3d) approx., 41000 mg/l, *Lactuca sativa* (others)

### 12.2. Persistence and degradability

The product is easily biologically degradable.

### 12.3. Bioaccumulative potential

#### 2-butoxyethanol, CAS No. 111-76-2

Log Pow 0.81 (25°C)

### 12.4. Mobility in soil

The mixture is water soluble and easily moves in soil. The mixture contains small amounts of volatile organic compounds (VOC), which easily evaporate from all surfaces.

### 12.5. Results of PBT and vPvB assessment

No data available on the results of PBT and vPvB assessment.

### 12.6. Other adverse effects

Prevent leakage of concentrated mixture into water bodies and drains.

## 13. DISPOSAL CONSIDERATIONS

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### 13.1. Waste treatment methods

Comply with the legislative documents of the EU and the Republic of Latvia, regulating waste treatment.

#### Product residue and wastes

Prevent discharge into drains. Do not store with municipal waste. Transfer waste for disposal or recycling to a licensed waste treatment company.

#### Waste code

070601 Aqueous washing liquids and mother liquors

#### Container and packaging waste

When possible, recycle containers and packaging free from product residue. Only completely emptied containers may be recycled.

#### Waste codes

If the container is free from product residue

150102 Plastic packaging

If the container contains product residue

150110 Packaging containing hazardous residue or contamination



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### **Additional information for waste treatment company personnel**

It is advised to comply with the general protective and hygiene measures when working with chemical substances.

## 14. TRANSPORT INFORMATION

### **14.1 UN number**

Not classified.

### **14.2. UN proper shipping name**

Not classified.

### **14.3. Transport hazard class (-es)**

ADR/RID/ADN                      -  
IMDG                                      -  
ICAO/IATA class/ section           -  
Hazard label                           -

### **14.4. Packaging group**

ADR/RID/ADN packaging group   -  
IMDG packaging group               -  
ICAO/IATA packaging group        -

### **14.5. Environmental hazards**

Not classified.

### **14.6. Special precautions for user**

Not classified.

### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

## 15. REGULATORY INFORMATION

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

Regulation (EC) No. 1907/2006 (18 December, 2006) of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

Regulation (EC) No. 1272/2008 (16 December, 2008) of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Commission Regulation (EU) No 453/2010 (20 May 2010) amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Commission Regulation (EU) No 487/2013 (8 May 2013) amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

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Commission Regulation (EU) No 944/2013 (2 October 2013) amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

Procedures for Classification, Labelling and Packaging of Chemical Substances and Chemical Products (Regulations of the Cabinet of Ministers' of the Republic of Latvia No. 107 of 12.03.2002)

Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces (Regulations of the Cabinet of Ministers' of the Republic of Latvia No. 325 of 15.05.2007)

### 15.2. Chemical risk assessment

No data on chemical risk assessment

## 16. OTHER INFORMATION

Developed on: 19.04.2012

Developed by: J. Brideau (800) 267-5744

Reviewed: on 12 June, 2014, SIA "Retorte"

Reviewed Sections 1-15 in correspondence with the current legislation of the EU.

### Information sources

Information has been reviewed and supplemented, based on the safety data sheet developed by the manufacturer and existing legislation.

Labelling in accordance to 1999/45/EC

Hazard symbols

No

Hazards labels

No

Safety phrases

S2 Keep away from children.

S46 If swallowed, immediately seek medical attention and present the packaging or its labelling.

### Section 2 and 3 chemical material effect descriptions (R phrases) and hazard labels (H label) in full:

R20/21/22 Harmful in contact with skin, harmful if swallowed, toxic by inhalation

R36/38 Irritating to eyes and skin.

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic – danger of very serious irreversible effects by inhalation, in contact with skin and if swallowed.

R68/20/21/22 Harmful- may cause very serious irreversible effects by inhalation, in contact with skin and if swallowed.

Acute Tox. 4 Acute toxicity, Hazard Category 4

H332 Harmful if inhaled

H312 Harmful in contact with skin

H302 Harmful if swallowed

Eye Irrit. 2 Eye irritation, Hazard category 2

H319 Causes serious eye irritation

Skin Irrit. 2 Skin irritation, Hazard Category 2

H315 Irritates skin

Flam Liq. 2 Flammable liquid, Hazard Category 2

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H225

Highly flammable liquid and vapour.

Acute Tox. 3

Acute toxicity, Hazard Category 3

H331

Toxic by inhalation

H311

Toxic in contact with skin.

H301

Toxic, if swallowed.

STOT SE 1

Toxic effect on target organ – single exposure, Hazard Category 1

H370

Causes damage to organs

STOT SE 2

Toxic effect to target organ – single exposure, Hazard Category 2

H371

May cause damage to organs

#### Abbreviations and acronyms used in the safety data sheet:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

#### Disclaimer

The information in this safety data sheet is based on the data provided by the product manufacturer, which is to be deemed correct; however, the product importer, nor its manufacturer shall guarantee that this information is comprehensive, nor shall bare any responsibility of the consequences caused by the use of this information. It is the responsibility of the user of the product, to evaluate the information provided here and its applicability to the current circumstances of the product usage, as well as to carry out all necessary safety procedures, when using this product.

**End of safety data sheet**