

## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. **Product identifier:**  
**A.Z. Meisterteile lock de-icer**
- 1.2. **Relevant identified uses of the mixture and uses advised against:**  
Maintenance product. For industrial, consumer and professional use.  
Uses advised against: Uses other than the recommended uses.
- 1.3. **Details of the supplier of the safety data sheet:**  
Information about the distributor:  
**Unix Autó Kft.**  
1139 Budapest, Frangepán utca 55-57.  
Tel.: 00 36 1 270 8700
- 1.3.1. Responsible person: -  
E-mail: [info@unixauto.hu](mailto:info@unixauto.hu)
- 1.4. **Emergency telephone number:** Please fill in!

### SECTION 2: HAZARDS IDENTIFICATION

2.1. **Classification of the mixture:**

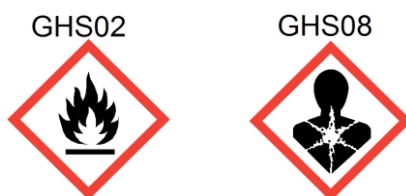
Classification according to Regulation (EC) No 1272/2008 (CLP):  
Aerosols, Hazard Category 1 – H222; H229  
Specific target organ toxicity – Repeated exposure, Hazard Category 2 – H373  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 – H412

**Hazard statements:**

**H222** – Extremely flammable aerosol.  
**H229** – Pressurised container: May burst if heated.  
**H373** – May cause damage to organs (central nervous system) through prolonged or repeated exposure.  
**H412** – Harmful to aquatic life with long lasting effects.

2.2. **Label elements:**

Components that define the hazards: Hydrocarbons, C<sub>9</sub>-C<sub>12</sub>, n-alkanes, isoalkanes, cyclics, 2-25% aromatics (< 0.01% benzene)



DANGER

**Hazard statements:**

**H222** – Extremely flammable aerosol.  
**H229** – Pressurised container: May burst if heated.  
**H373** – May cause damage to organs (central nervous system) through prolonged or repeated exposure.  
**H412** – Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

- P102** – Keep out of reach of children.  
**P210** – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
**P211** – Do not spray on an open flame or other ignition source.  
**P251** – Do not pierce or burn, even after use.  
**P261** – Avoid breathing spray.  
**P273** – Avoid release to the environment.  
**P304 + P340** – IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
**P314** – Get medical advice/attention if you feel unwell.  
**P410 + P412** – Protect from sunlight. Do not expose to temperatures exceeding 50 °C.  
**P501** – Dispose of contents/container in accordance with local/national/international regulations.

**2.3. Other hazards:**

Product vapours are heavier than air and may spread along the floor. Vapours may form explosive gas/air mixtures.  
 The product does not contain PBT or vPvB substances in accordance with Annex XIII of Regulation (EC) No 1907/2006.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances:**

Not applicable.

**3.2. Mixtures:**

Description: Mixture of substances listed below with non-hazardous additives and propellant:

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
<b>Ethanol*</b> Index number: 603-002-00-5	64-17-5	200-578-6	01- 2119457610-43	60-70	GHS02 Danger	Flam. Liq. 2	H225
<b>Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, 2-25% aromatics (&lt; 0.01% benzene)**</b> Note P	64742-82-1	919-446-0	01- 2119458049-33	2.15- 4.8	GHS02 GHS07 GHS08 GHS09 Danger	Flam. Liq. 3 STOT SE 3 STOT RE 1 Asp. Tox. 1 Aquatic Chronic 2	H226 H336 H372 (central nervous system) H304 H411 EUH066
<b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics**</b>	-	918-481-9	01- 2119457273-39	2.15- 4.8	GHS02 GHS08 Danger	Flam. Liq. 3 Asp. Tox. 1	H226 H304
<b>Propan-2-ol*</b> Index number: 603-117-00-0	67-63-0	200-661-7	01- 2119457558-25	0.45- 1.1	GHS02 GHS07 Danger	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336
<b>Propane</b> Index number: 601-003-00-5	74-98-6	200-827-9	01- 2119486944-21	***	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280
<b>Butane*</b> Index number: 601-004-00-0	106-97-8	203-448-7	01- 2119474691-32	***	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280
<b>Isobutane</b> Index number: 601-004-00-0	75-28-5	200-857-2	01- 2119485395-27	***	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280

\*: Substance having occupational exposure limit value.  
\*\*: Classification specified by the manufacturer.  
\*\*\*: Propellant.

**Note P:**

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7).

For the full text of hazard statements, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures:

**General information:**

Provide fresh air. Consult a physician in case of symptoms, complaints or if in doubt. In case of unwellness, obtain medical attention. Do not give anything orally to an unconscious person.

**INGESTION:**

Measures:

- Not a likely route of exposure (aerosol product).
- If aerosol gets accidentally in the mouth or is ingested, it is prohibited to induce vomiting.
- Immediately call for a physician and show him the safety data sheet or the product's label.

**INHALATION:**

Measures:

- Take the victim into fresh air and place him into a position that is comfortable for breathing.
- Immediately call a physician if coughing, breathing difficulties or unwellness occur.

**SKIN CONTACT:**

Measures:

- Remove the contaminated clothes and shoes.
- Wash contaminated skin with plenty of water and soap.
- Obtain medical attention if complaints or irritation occur.

**EYE CONTACT:**

Measures:

- Rinse eye for at least 10-15 minutes with plenty of running water, while holding eyelids apart and moving the eyeballs.
- Remove contact lenses if present, and if this is easy to do.
- Continue rinsing.
- Obtain medical attention if complaints or irritation occur.

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

May cause damage to organs (central nervous system) through prolonged or repeated exposure.

In higher concentration the propellant may cause asphyxia and oxygen deficiency.

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

No special treatment needed; treat symptomatically.

Keep patient under observation.

Show this safety data sheet or the product's label to the physician.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media:

#### 5.1.1. Suitable extinguishing media:

Extinguishing powder, carbon dioxide, foam.

#### 5.1.2. Unsuitable extinguishing media:

Do not use strong water jet.

Water may be used to cool containers down.

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

Extremely flammable aerosol. Pressurised container: May burst if heated.

Heating of closed, pressurized containers present an explosion hazard.

In case of fire, smoke and other combustion products (carbon monoxide, carbon dioxide) may be formed; the inhalation of such combustion products can have serious adverse effects on health. Do not breathe combustion products.

### 5.3. Advice for firefighters:

Evacuate the surroundings.

Larger release of the product is not likely due to the aerosol form.  
Wear full protective clothing and self-contained breathing apparatus.  
Stop the leakage.  
Prevent the extinguishing agent from entering sewers, bodies of water or the environment.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures:**
- 6.1.1. For non-emergency personnel:**  
Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.
- 6.1.2. For emergency responders:**  
Remove all sources of ignition and do not use open flames.  
Stop leakage if this can be done without risk.  
Use only non-sparking tools.  
Observe the pertinent regulations on industrial safety and basic hygiene rules.  
Prevent product from getting into contact with skin and eyes.  
Do not breathe aerosol.  
As emergency responder, wear suitable personal protection.  
Product vapours are heavier than air and may spread along the floor. Vapours may form explosive gas/air mixtures.  
Provide adequate ventilation in the danger zone.
- 6.2. Environmental precautions:**  
Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately. Product may present an explosion hazard if it reaches the sewage system. Release of larger quantities is not likely (aerosol can).
- 6.3. Methods and material for containment and cleaning up:**  
Stop leakage if this can be done without risk.  
Do not breathe aerosol.  
Close down the danger zone and deny entry to unauthorized persons.  
Collect spilled material with non-combustible absorbent material (e.g. dry earth, sand) and place into closed containers until proper removal. Rags, paper towels or absorbent materials contaminated with the product may present fire hazard.
- 6.4. Reference to other sections:**  
For further and detailed information see Sections 7, 8 and 13, 15.

## SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:**  
Observe conventional hygiene precautions.  
Observe the pertinent regulations on industrial safety and basic hygiene rules.  
Prevent product from getting into contact with skin and eyes.  
Do not breathe aerosol.  
Do not eat or drink during use.  
Remove contaminated clothes and wash them before re-use.  
Wash hands with soap and running water during breaks and at the end of work.  
**Technical measures:**  
Use only outdoors or in a well-ventilated place.  
Use appropriate personal protection.  
**Precautions against fire and explosion:**  
Extremely flammable aerosol.  
Pressurised container: May burst if heated.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not spray on naked flames or other sources of ignition.  
Prevent the accumulation of aerosols in the air.  
Take measures to prevent electrostatic charges.  
Use only non-sparking tools.  
Product vapours are heavier than air and may spread along the floor. Vapours may form explosive gas/air mixtures.  
Do not pierce or burn, even after use.
- 7.2. Conditions for safe storage, including any incompatibilities:**  
**Technical measures and storage condition:**  
Store in a well-ventilated, cool and dry place, at temperatures below 35 °C.

Containers may explode when heated (explosion hazard).  
 Smoking is prohibited in the storage area.  
 Take measures to prevent electrostatic charges.  
 Do not expose to sunlight or radiant heat. Do not pierce or burn, even after use.  
 Do not expose to temperatures exceeding 50 °C.  
 Observe precautions regarding pressurized containers.  
 Keep separated from food, beverages and animal feed.  
 Keep out of the reach of children.  
**Incompatible materials:** See Section 10.5  
**Packaging material:** No special prescriptions.

7.3. **Specific end use(s):**  
 See Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. **Control parameters:**

**Occupational exposure limit values** (United Kingdom, EH40/2005 (Fourth Edition 2020)):

**Ethanol** (CAS: 64-17-5):

Long-term exposure limit (8-hr TWA reference period): 1000 ppm; 1920 mg/m<sup>3</sup>

**Propan-2-ol** (CAS: 67-63-0):

Long-term exposure limit (8-hr TWA reference period): 400 ppm; 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 500 ppm; 1250 mg/m<sup>3</sup>

**Butane** (CAS: 106-97-8):

Long-term exposure limit (8-hr TWA reference period): 600 ppm; 1450 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): 750 ppm; 1810 mg/m<sup>3</sup>

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no notes
Marine water	no data	no notes
Freshwater sediment	no data	no notes
Marine water sediment	no data	no notes
Sewage Treatment Plant (STP)	no data	no notes
Intermittent release	no data	no notes
Secondary poisoning	no data	no notes
Soil	no data	no notes

### 8.2. **Exposure controls:**

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

#### 8.2.1. **Appropriate engineering controls:**

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.  
 Use the product with adequate ventilation.

#### 8.2.2. **Individual protection measures, such as personal protective equipment:**

Observe the general safety regulations when handling chemicals.  
 Observe precautions regarding pressurized containers.  
 Observe the pertinent regulations on industrial safety and basic hygiene rules.  
 Do not eat or drink during use.  
 Do not smoke!

Prevent product from getting into contact with skin and eyes.

Do not breathe aerosol.

Remove contaminated clothes and wash them before re-use.

Wash hands with soap and running water during breaks and at the end of work.

Wash hands before eating.

See also Sections 6-7.

The information regarding personal protective equipment is only for informative purposes. A complete risk assessment is required before the use of the product for the determination of the appropriate personal protective equipment, taking local circumstances into account.

1. **Eye/face protection:** If eye contact is possible, use appropriate, tightly fitting protective glasses (EN 166).

2. **Skin protection:**

a. **Hand protection:** Use appropriate protective gloves (EN 374).

The glove material should be impermeable and resistant to the product.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which may vary from manufacturer to manufacturer.

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

Remove contaminated gloves and wash before re-use.

b. **Other:** Use appropriate protective clothing in case of continuous use.

3. **Respiratory protection:** Use appropriate respiratory protective device if exposure limit values are exceeded.

4. **Thermal hazards:** No thermal hazards known.

8.2.3. **Environmental exposure controls:**

Do not let the product into sewers, bodies of water and the environment.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Parameter	Value / Test method / Remarks
1. <b>Appearance:</b>	light yellow aerosol
2. <b>Odour:</b>	characteristic, alcoholic odour, odour like mineral oil
3. Odour threshold:	no data*
4. pH:	7.7 (20 °C)
5. Melting point/freezing point:	no data*
6. Initial boiling point and boiling range:	no data*
7. Flash point:	no data*
8. Evaporation rate:	no data*
9. Flammability (solid, gas):	extremely flammable aerosol
10. Upper/lower flammability or explosive limits:	no data*
11. Vapour pressure:	no data*
12. Vapour density:	no data*
13. Relative density:	no data*
14. Solubility(ies):	miscible with water
15. Partition coefficient: n-octanol/water:	no data*
16. Auto-ignition temperature:	no data*
17. Decomposition temperature:	no data*
18. Viscosity:	no data*
19. Explosive properties:	mixture is not explosive, but may form explosive gas/air mixtures
20. Oxidizing properties:	no data*

### 9.2. Other information:

No data available.

\*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet.

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:**  
No reactivity known if stored and used as prescribed.
- 10.2. Chemical stability:**  
Stable if stored and used as prescribed.
- 10.3. Possibility of hazardous reactions:**  
No hazardous reactions occur if stored and used as prescribed.
- 10.4. Conditions to avoid:**  
Take measures against electrostatic charges.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
- 10.5. Incompatible materials:**  
Strong acids, bases, oxidizing agents.
- 10.6. Hazardous decomposition products:**  
No hazardous decomposition products are known in case of normal use.  
In case of fire and during incomplete burning, hazardous combustion products may be formed (see Section 5.2).

## SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects:**  
**Acute toxicity:** Based on available data, the classification criteria are not met.  
**Skin corrosion/irritation:** Based on available data, the classification criteria are not met.  
**Serious eye damage/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.  
**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.  
**Carcinogenicity:** Based on available data, the classification criteria are not met.  
**Reproductive toxicity:** Based on available data, the classification criteria are not met.  
**STOT-single exposure:** Based on available data, the classification criteria are not met.  
**STOT-repeated exposure:** May cause damage to organs (central nervous system) through prolonged or repeated exposure.  
**Aspiration hazard:** Based on available data, the classification criteria are not met.
- 11.1.1. Summaries of the information derived from the test conducted:**  
No data available.
- 11.1.2. Relevant toxicological properties:**  
**Acute toxicity:**  
No toxicological data is available regarding the mixture.
- 11.1.3. Information on likely routes of exposure:**  
Inhalation, skin contact, eye contact.
- 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:**  
In higher concentration the propellant may cause asphyxia and oxygen deficiency.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:**  
May cause damage to organs (central nervous system) through prolonged or repeated exposure.
- 11.1.6. Interactive effects:**  
No data available.
- 11.1.7. Absence of specific data:**  
No information.
- 11.1.8. Other information:**  
No data available.

## SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:**  
Harmful to aquatic life with long lasting effects.
- 12.2. Persistence and degradability:**

No data available.

**12.3. Bioaccumulation potential:**

No data available.

**12.4. Mobility in soil:**

No data available.

**12.5. Results of PBT and vPvB assessment:**

The product does not contain PBT or vPvB substances in accordance with Annex XIII of Regulation (EC) No 1907/2006.

**12.6. Other adverse effects:**

Do not let into the sewage system, sewers, soil, ground water or bodies of water.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods:**

Disposal according to the local regulations.

**13.1.1. Information regarding the disposal of the product:**

Dispose of in accordance with applicable regulations.

Do not dispose of together with household waste.

Do not pierce or burn, even after use.

**List of Waste Code:**

**16 05 04\*** gases in pressure containers (including halons) containing hazardous substances

\*: Hazardous waste.

**13.1.2. Information regarding the disposal of the packaging:**

Dispose of in accordance with applicable regulations.

Packaging waste is hazardous.

Do not let the packaging in sewers or water courses.

Prevent the aerosol from entering the environment.

**13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:**

Pressurized container: Do not pierce or burn, even after use.

Do not open, crash, pierce, expose to temperatures above 50 °C, sunlight, radiant heat and do not throw into fire, even after use.

**13.1.4. Sewage disposal:**

No data available.

**13.1.5. Special precautions for any recommended waste treatment:**

No data available.

## SECTION 14: TRANSPORT INFORMATION

**14.1. UN Number:**

ADR/RID; ADN; IMDG; IATA: UN 1950

**14.2. UN proper shipping name:**

ADR/RID; ADN: AEROSOLS, flammable

IMDG; IATA: AEROSOLS, flammable

**14.3. Transport hazard class(es):**

Class: 2

Classification code: 5F

Label: 2.1

Transport category: 2

Limited quantities (LQ): 2

**14.4. Packing group:**

No packing group.

**14.5. Environmental hazards:**

Environmentally hazardous: No.

Marine pollutant: No.

**14.6. Special precautions for user:**

See Sections 6-8.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:**

Not applicable.



## SECTION 15: REGULATORY INFORMATION

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

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

**REGULATION (EC) No 1272/2008** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

**COMMISSION REGULATION (EU) No 2015/830** of 28 May 2015 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 DIRECTIVE (EU) No 2013/10** of 19 March 2013 amending Council Directive (EEC) No 75/324 on the approximation of the laws of the Member States relating to aerosol dispensers

### 15.2. Chemical safety assessment: Chemical safety assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

**Information regarding the revision of the safety data sheet:** No information.

### **Literature references / data sources:**

Data provided by the manufacturer (composition, data about the ingredients).

### **Methods used for the classification according to Regulation (EC) No 1272/2008:**

Classification	Method
Aerosols, Hazard Category 1 – H222; H229	Based on test methods (test data)
Specific target organ toxicity – Repeated exposure, Hazard Category 2 – H373	Based on calculation method
Hazardous to the aquatic environment – Chronic Hazard, Category 3 – H412	Based on calculation method

### **Relevant hazard statements (code and full text) of Sections 2 and 3:**

**H220** – Extremely flammable gas.

**H222** – Extremely flammable aerosol.

**H225** – Highly flammable liquid and vapour.

**H226** – Flammable liquid and vapour.

**H229** – Pressurised container: May burst if heated.

**H280** – Contains gas under pressure; may explode if heated.

**H304** – May be fatal if swallowed and enters airways.

**H319** – Causes serious eye irritation.

**H336** – May cause drowsiness or dizziness.

**H372** – Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

**H373** – May cause damage to organs (central nervous system) through prolonged or repeated exposure.

**H411** – Toxic to aquatic life with long lasting effects.

**H412** – Harmful to aquatic life with long lasting effects.

**EUH 066** – Repeated exposure may cause skin dryness or cracking.

**Training advice:** No data available.

### **Full text of the abbreviations in the safety data sheet:**

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

AOX: Adsorbable organic halides.

BCF: Bioconcentration factor.

BOD: Biological Oxygen Demand.  
CAS number: Chemical Abstract Service number.  
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
CMR effects: Carcinogenic, mutagenic, reprotoxic effects.  
COD: Chemical Oxygen Demand.  
CSA: Chemical Safety Assessment.  
CSR: Chemical Safety Report.  
DNEL: Derived-No-Effect-Level.  
ECHA: European Chemical Agency.  
EC: European Community.  
EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).  
EEC: European Economic Community.  
EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ELINCS: European List of Notified Chemical Substances.  
EN: European Norm.  
EU: European Union.  
EWC: European Waste Catalogue (replaced by LoW – see below).  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.  
IATA: International Air Transport Association.  
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
IMDG: International Maritime Dangerous Goods.  
IMSBC: International Maritime Solid Bulk Cargoes.  
IUCLID: International Uniform Chemical Information Database.  
IUPAC: International Union of Pure and Applied Chemistry.  
Kow: n-Octanol - Water Partition Coefficient.  
LC50: Lethal concentration resulting in 50 % mortality.  
LD50: Lethal dose resulting in 50 % mortality (median lethal dose).  
LoW: List of Waste.  
LOEC: Lowest Observed Effect Concentration.  
LOEL: Lowest Observed Effect Level.  
NOEC: No Observed Effect Concentration.  
NOEL: No Observed Effect Level.  
NOAEC: No Observed Adverse Effect Concentration.  
NOAEL: No Observed Adverse Effect Level.  
OECD: Organization for Economic Cooperation and Development.  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic.  
PNEC: Predicted No Effect Concentration.  
QSAR: Quantitative Structure Activity Relationship.  
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.  
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.  
SCBA: Self Contained Breathing Apparatus.  
SDS: Safety Data Sheet.  
STOT: Specific Target Organ Toxicity.  
SVHC: Substances of Very High Concern.  
UN: United Nations.  
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.  
VOC: Volatile Organic Compound.  
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

