

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

### 1.1 Product identifier

**Product name**

Silic Rock

**Product code**

[v.1.5], A33486, A33049, A33109, A33110, A33292, A33293, A33294, A33493

**UFI:**

752A-4C8A-E000-X253

<https://my.chemius.net/p/J6fUku/en/pd/en>

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

**Relevant identified uses**

Fertiliser.

**Uses advised against**

Do not use for purposes other than those prescribed.

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

**Supplier**

Bertels B.V.

Ommelpad 2

6035 PC Ospel, The Netherlands

31 (0)495 63 15 59

info@bertelsholland.com

### 1.4 Emergency Telephone Number

**Emergency**

111

**Supplier**

31 (0)495 63 15 59

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

Met. Corr. 1; H290 May be corrosive to metals.

Skin Corr. 1A; H314 Causes severe skin burns and eye damage.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP)****Signal word: DANGER**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

EUH071 Corrosive to the respiratory tract.

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

P102 Keep out of reach of children.

P234 Keep only in original packaging.

P271 Use only outdoors or in a well-ventilated area.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with national regulation.

**Contains:**

Silicic acid, potassium salt

nitric acid

**2.3 Other hazards****PBT/vPvB**

The substances in the product are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

**Endocrine disrupting properties**

The mixture does not contain substance(s) included in the list established in accordance with Article 59 of REACH for having endocrine disrupting properties, or substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**Additional information**

No information.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

For mixtures see 3.2.

**3.2 Mixtures**

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
citric acid	77-92-9 201-069-1 607-750-00-3	5-10	Eye Irrit. 2; H319 STOT SE 3; H335	/	/
Silicic acid, potassium salt	1312-76-1 215-199-1 - 01-2119456888-17	2.5-5	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318	/	/
nitric acid	7697-37-2 231-714-2 007-030-00-3	1-2.5	Ox. Liq. 3; H272 Skin Corr. 1A; H314 Acute Tox. 3; H331 EUH071	Ox. Liq. 3; H272; C ≥ 65% Skin Corr. 1A; H314; C ≥ 20% Skin Corr. 1B; H314; 5% ≤ C < 20% inhalation: ATE = 2.65 mg/l (vapours)	B
bronopol (INN)	52-51-7 200-143-0 603-085-00-8	<0.01	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Acute 1; H400; M = 10	/	/

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9 611-341-5 613-167-00-5	<0.01	Acute Tox. 3; H301 Acute Tox. 2; H310 Skin Corr. 1C; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Acute 1; H400; M = 100 Aquatic Chronic 1; H410; M = 100 EUH071	Skin Corr. 1C; H314; C ≥ 0.6% Skin Irrit. 2; H315; 0.06% ≤ C < 0.6% Skin Sens. 1A; H317; C ≥ 0.0015% Eye Dam. 1; H318; C ≥ 0.6% Eye Irrit. 2; H319; 0.06% ≤ C < 0.6%	B

**Notes for substances**

B	<p>Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations.</p> <p>In Part 3 entries with Note B have a general designation of the following type: "nitric acid ... %".</p> <p>In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.</p>
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**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****General notes**

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

**Following inhalation**

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

**Following skin contact**

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Immediately obtain professional medical help!

**Following eye contact**

Immediately flush eyes with running water, keeping eyelids apart. After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. Consult a physician immediately!

**Following ingestion**

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

**4.2 Most important symptoms and effects, both acute and delayed****Following inhalation**

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Harmful if inhaled.

**Following skin contact**

Skin burns: Signs/symptoms may include localised redness, swelling, itching, dryness, blistering.

**Following eye contact**

Redness, pain, burning sensation, tearing, can cause permanent damage to the eyes.

**Following ingestion**

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. If ingested, may cause burns of the mouth and throat, as well as perforation of the esophagus and stomach.

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

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam. Product itself is not flammable.

#### **Unsuitable extinguishing media**

Full water jet.

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

#### **Hazardous combustion products**

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

### 5.3 Advice for firefighters

#### **Protective actions**

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

#### **Special protective equipment for fire-fighters**

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

#### **Additional information**

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### **For non-emergency personnel**

##### **Protective equipment**

Use personal protective equipment (Section 8).

##### **Precautionary measures**

Ensure adequate ventilation.

##### **Emergency procedures**

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

#### **For emergency responders**

Use personal protective equipment.

### 6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

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

#### **For containment**

Stem the spill if this does not pose risks.

#### **For cleaning up**

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

#### **Other information**

No information.

## 6.4 Reference to other sections

See also sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

## 7.1 Precautions for safe handling

### Protective measures

#### Measures to prevent fire

Ensure adequate ventilation.

#### Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

#### Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

#### Other measures

No information.

#### Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

### Packaging materials

Store only in original container.

### Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

### Storage temperature

5 - 35 °C

### Storage class

No information.

### Further information on storage conditions

Keep away from incompatible materials (see Section 10).

## 7.3 Specific end use(s)

### Recommendations

See identified uses in Section 1.2.

### Industrial sector specific solutions

No information.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

### Occupational Exposure limit values

Name	mg/m <sup>3</sup>	ml/m <sup>3</sup>	Short-term value mg/m <sup>3</sup>	Short-term value ml/m <sup>3</sup>	Remark	Biological Tolerance Values
Nitric acid (7697-37-2)	/	/	2.6	1	/	/

### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation

to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

### DNEL/DMEL values

#### For product

No information.

#### For components

Name	Type	Exposure route	exp. frequency	Remark	Value
Silicic acid, potassium salt	Consumer	oral	long term systemic effects	/	0.74 mg/kg bw/day
Silicic acid, potassium salt	Consumer	dermal	long term systemic effects	/	0.74 mg/kg bw/day
Silicic acid, potassium salt	Consumer	inhalation	short term systemic effects	/	1.38 mg/m <sup>3</sup>
Silicic acid, potassium salt	Worker	dermal	long term systemic effects	/	1.49 mg/kg bw/day
Silicic acid, potassium salt	Worker	inhalation	long term systemic effects	/	5.61 mg/m <sup>3</sup>

### PNEC values

#### For product

No information.

#### For components

Name	Exposure route	Remark	Value
Silicic acid, potassium salt	fresh water	/	7.5 mg/L
Silicic acid, potassium salt	marine water	/	1 mg/L
Silicic acid, potassium salt	water, intermittent release	fresh water	7.5 mg/L
Silicic acid, potassium salt	water treatment plant	/	348 mg/L

## 8.2 Exposure controls

### Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

#### Structural measures to prevent exposure

No information.

#### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

### Personal protective equipment

#### Eye and face protection

Wear tight fitting protective goggles and/or face protection (EN 166).

#### Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

### Appropriate materials

#### Skin protection

Protective work clothing resistant to liquid chemicals (BS EN 14605:2005+A1:2009). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

**Thermal hazards**

No information.

**Environmental exposure controls****Substance/mixture related measures to prevent exposure**

No information.

**Instruction measures to prevent exposure**

No information.

**Organisational measures to prevent exposure**

No information.

**Technical measures to prevent exposure**

Do not allow product to reach drains, sewage systems or ground water.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

**Important health, safety and environmental information**

Physical state	liquid
Shape	No information.
Colour	colourless
Odour	odourless
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	1.6, conc. 100 %
Viscosity	No information.
Solubility (Water)	Completely soluble
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Density	1.08 kg/L
Relative vapour/gas density	No information.
Particle characteristics	No information.

## 9.2 Other information

**Information with regard to physical hazard classes**

No information.

**Other safety characteristics**

No information.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Stable under recommended transport or storage conditions.

**10.2 Chemical stability**

Product is stable under normal conditions of use, recommended handling and storage conditions.

**10.3 Possibility of hazardous reactions**

No information.

**10.4 Conditions to avoid**

Protect from heat, direct sunlight, open fire, sparks.

**10.5 Incompatible materials**

Alkalis.  
Amines.

**10.6 Hazardous decomposition products**

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****(a) Acute toxicity****For components**

Name	Exposure route	Type	Species	Time	Value	Method	Remark
citric acid	oral	LD <sub>50</sub>	rat	/	11700 mg/kg	/	/
citric acid	dermal	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/
Silicic acid, potassium salt	oral	LD <sub>50</sub>	rat	/	> 2000 mg/kg	/	/
bronopol (INN)	oral	LD <sub>50</sub>	rat	/	211 mg/kg	/	/

**Additional information**

The product is not classified as acutely toxic.

**(b) Skin corrosion/irritation**

No information.

**Additional information**

Causes severe skin burns and eye damage.

**(c) Serious eye damage/irritation**

No information.

**(d) Respiratory or skin sensitisation**

No information.

**Additional information**

It contains at least one ingredient that can cause sensitisation. Can cause allergic reaction.

**(e) (Germ cell) mutagenicity**

No information.

**(f) Carcinogenicity**



No information.

**(g) Reproductive toxicity**

No information.

**Summary of evaluation of the CMR properties**

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

**(h) STOT-single exposure**

No information.

**Additional information**

STOT SE (single exposure): Not classified.

**(i) STOT-repeated exposure**

No information.

**Additional information**

STOT RE (repeated exposure): Not classified.

**(j) Aspiration hazard**

No information.

**Additional information**

May be fatal if swallowed and enters airways.

**Symptoms related to the physical, chemical and toxicological characteristics**

No information.

**Interactive effects**

No information.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

The product does not contain substances with the potential for endocrine disorders.

**Other information**

No information.

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity**

**Acute (short-term) toxicity**

**For components**

Name	Type	Value	Exposure time	Species	organism	Method	Remark
Silicic acid, potassium salt	LC <sub>50</sub>	> 100 mg/L	96 h	fish	/	/	/

**Chronic (long-term) toxicity**

No information.

**12.2 Persistence and degradability**

**Abiotic degradation, physical- and photo-chemical elimination**

No information.

**Biodegradation**

No information.

**12.3 Bioaccumulative potential**

**Partition coefficient n-octanol/water (log value)**

No information.

#### **Bioconcentration factor (BCF)**

No information.

#### 12.4 Mobility in soil

##### **Known or predicted distribution to environmental compartments**

No information.

##### **Surface tension**

No information.

##### **Adsorption/Desorption**

No information.

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Endocrine disrupting properties

##### **For product**

The mixture does not contain substance(s) included in the list established in accordance with Article 59 of REACH for having endocrine disrupting properties, or substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### 12.7 Other adverse effects

No information.

#### 12.8 Additional information

##### **For product**

Product is not classified as hazardous for environment. Do not allow to reach ground water, water courses or sewage system.

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

##### **Product / Packaging disposal**

##### **Waste chemical**

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

##### **Waste codes / waste designations according to LoW**

02 01 08\* - agrochemical waste containing dangerous substances

##### **Packaging**

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

##### **Waste codes / waste designations according to LoW**

15 01 02 - plastic packaging

##### **Waste treatment-relevant information**

No information.





##### **Sewage disposal-relevant information**

Do not discharge into drains.

##### **Other disposal recommendations**

No information.

## SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 1760	UN 1760	UN 1760	UN 1760
14.2 UN proper shipping name			
CORROSIVE LIQUID, N.O.S., MIXTURE	CORROSIVE LIQUID, N.O.S., MIXTURE	CORROSIVE LIQUID, N.O.S., MIXTURE	CORROSIVE LIQUID, N.O.S., MIXTURE
14.3 Transport hazard class(es)			
8	8	8	8
			
14.4 Packing group			
II	II	II	II
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 1 L Special provisions 274 Packing Instructions P001, IBC02 Transport category 2 Tunnel restriction code (E) Classification code C9	Limited quantities 1 L EmS F-A, S-B	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y840 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 0.5 L Packing Instructions (Pkg Inst) 851 Maximum Net Quantity/Package (Max Net Qty/Pkg) 1 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst) 855 Cargo Aircraft Only, Maximum Net Quantity/Package (CAO, Max Net Qty/Pkg) 30 L Special provisions A803 Excepted quantities E2 ERG code 8L	Limited quantities 1 L
14.7 Maritime transport in bulk according to IMO instruments			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 - Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

**Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)**  
 not applicable

**Ingredients according to Regulation (EC) No 648/2004 on detergents**

No information.

**Special instructions**

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has been carried out for one or more substances present in the material.

## SECTION 16: OTHER INFORMATION

**Indication of changes**

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

**Key literature references and sources for data**

No information.

**Abbreviations and acronyms**

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

EWC - European Waste Catalogue (replaced by LoW – see below)

GES - Generic Exposure Scenario

GHS - Globally Harmonized System

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

IT - Information Technology

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

LE - Legal Entity

LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

LR - Lead Registrant

M/I - Manufacturer / Importer

MS - Member States

MSDS - Material Safety Data Sheet

OC - Operational Conditions

OECD - Organization for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OJ - Official Journal

OR - Only Representative

OSHA - European Agency for Safety and Health at work

PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)

PPE - Personal Protection Equipment

(Q)SAR - Qualitative Structure Activity Relationship

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project

RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum

SME - Small and Medium sized Enterprises

STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

#### List of relevant H phrases

H272 May intensify fire; oxidiser.

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

#### Training advice

Ensure adequate training of the persons responsible for the use of chemicals.