1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name: KLOZUR® ONE

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

Recommended Use: In situ and ex situ chemical oxidation of contaminants and compounds of concern for environmental remediation applications.

Restrictions on Use: No uses to be advised against were identified

1.3. Details of the supplier of the safety data sheet

Supplier: PeroxyChem LLC
Only Representative: PeroxyChem Spain s.l.u.
C/ Afueras s/n 50784 La Zaida (Zaragoza) Spain
Tel: +34 976 179600

E-mail address: sdsinfo-emea@peroxychem.com

1.4. Emergency telephone numbers

For leak, fire, spill or accident emergencies, call:
1 800 / 424 9300 (CHEMTREC - U.S.A.)
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)
(303) 595-9048 (Medical - U.S. - Call Collect)
2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Oxidizing Solids</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16.

2.2. Label Elements

Signal word: WARNING

Hazard Statements

- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H317 - May cause an allergic skin reaction
- H335 - May cause respiratory irritation
- H272 - May intensify fire; oxidizer

Precautionary statements

- P220 - Keep/Store away from clothing/ combustible materials
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P405 - Store locked up

2.3. OTHER INFORMATION

General Hazards

Risk of decomposition by heat or by contact with incompatible materials
3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC-No</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Persulfate</td>
<td>231-892-1</td>
<td>7775-27-1</td>
<td>95</td>
<td>Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) STOT SE 3 (H335) Ox. Sol. 3 (H272)</td>
<td>01-2119495975-15-0001</td>
</tr>
<tr>
<td>inorganic salt</td>
<td>Listed</td>
<td>-</td>
<td>&lt; 1</td>
<td>Acute Tox. 4 (H302) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Ox. Sol. 2 (H272)</td>
<td>-</td>
</tr>
<tr>
<td>organic salt</td>
<td>Not Listed</td>
<td>-</td>
<td>&lt; 5</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

Occupational exposure limits, if available, are listed in section 8. For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

4.1. Description of first-aid measures

General Advice
Remove from exposure, lie down. Show this material safety data sheet to the doctor in attendance.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids intermittently. Consult a physician.

Inhalation
Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Ingestion
Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth. Drink 1 or 2 glasses of water.

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

Itching; Redness; Coughing and/or wheezing.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Water. Cool containers with flooding quantities of water until well after fire is out.

Extinguishing media which shall not be used for safety reasons
Do NOT use water jet.
5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
In case of fire, formation of sulphur oxides, nitrogen oxides, toxic pyrolysis products.

5.3. Advice for firefighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear.

OTHER INFORMATION
The product is not combustible. Contact with combustible materials may intensify fires. Adjust fire fighting measures to surrounding fire, if possible. Cool endangered containers with water spray and move out of danger area. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Keep off any unprotected persons. Avoid contact with the skin and the eyes. Avoid breathing dust. Wear personal protective equipment.

6.2. Environmental Precautions

Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses.

6.3. Methods and materials for containment and cleaning up

Vacuum, shovel or pump waste into a drum and label contents for disposal. Avoid dust formation. Store in closed container. Clean up spill area and treat as special waste Dispose of waste as indicated in Section 13

Never add other substances or combustible waste to product residues.

6.4. Reference to other sections

For personal protection see Section 8. Dispose of waste as indicated in Section 13
7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Avoid dust formation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Avoid contact with skin and eyes. Avoid breathing dust. Remove and wash contaminated clothing before re-use. Reference to other sections.

Additional information
Use clean plastic or stainless steel scoops only

7.2. Conditions for safe storage, including any incompatibilities

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Do not store near combustible materials. Avoid contamination of opened product. Keep away from food, drink and animal feedingstuffs. Avoid formation and deposition of dust.

Materials to avoid
Acids, alkanes, halides (fluorides, chlorides, bromides), combustible materials, reducing agents and organic compounds.

7.3. Specific end uses

Refer to Section 1 and the Annex.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Exposure Limits</th>
<th>Workplace control parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Persulfate 7775-27-1</td>
<td>European Union</td>
<td>TWA 0.1 mg/m³, STEL 0.3 mg/m³</td>
</tr>
<tr>
<td></td>
<td>The United Kingdom</td>
<td>TWA 0.1 mg/m³, STEL 0.3 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ireland</td>
<td>Sensitizer</td>
</tr>
<tr>
<td>Chemical name</td>
<td>France</td>
<td>TWA 0.1 mg/m³</td>
</tr>
<tr>
<td>Sodium Persulfate 7775-27-1</td>
<td>Spain</td>
<td>TWA 0.1 mg/m³</td>
</tr>
<tr>
<td>Chemical name</td>
<td>Portugal</td>
<td>TWA 0.1 mg/m³</td>
</tr>
<tr>
<td>Sodium Persulfate 7775-27-1</td>
<td>Denmark</td>
<td>TWA 2 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Finland</td>
<td>TWA 5 mg/m³</td>
</tr>
<tr>
<td>Chemical name</td>
<td>Norway</td>
<td>TWA 5 mg/m³</td>
</tr>
<tr>
<td>Sodium Persulfate 7775-27-1</td>
<td>Greece</td>
<td>TWA 5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Hungary</td>
<td>TWA 5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Croatia</td>
<td>TWA 5 mg/m³</td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL)

<table>
<thead>
<tr>
<th>DNELs - General Population</th>
<th>Route of Exposure</th>
<th>Description</th>
<th>DNEL/DMEL</th>
<th>Most Sensitive Endpoint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Persulfate (7775-27-1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exposure pattern</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute - systemic</td>
<td>dermal</td>
<td>LD0</td>
<td>200 mg/kg bw</td>
<td>Acute toxicity</td>
</tr>
<tr>
<td>Acute - systemic</td>
<td>Inhalation</td>
<td>LC0</td>
<td>295 mg/m³</td>
<td>Acute toxicity</td>
</tr>
<tr>
<td>Acute - systemic</td>
<td>oral</td>
<td>LD0</td>
<td>30 mg/kg bw</td>
<td>Acute toxicity</td>
</tr>
<tr>
<td>Acute - local</td>
<td>dermal</td>
<td>LD0</td>
<td>1.124 mg/cm³</td>
<td>Acute toxicity</td>
</tr>
<tr>
<td>Acute - local</td>
<td>Inhalation</td>
<td>LC0</td>
<td>295 mg/m³</td>
<td>Acute toxicity</td>
</tr>
<tr>
<td>Long term - systemic</td>
<td>dermal</td>
<td>NOAEL</td>
<td>91 mg/kg bw/day</td>
<td>repeated dose toxicity</td>
</tr>
<tr>
<td>Long term - systemic</td>
<td>Inhalation</td>
<td>NOAEC</td>
<td>1.03 mg/m³</td>
<td>repeated dose toxicity</td>
</tr>
<tr>
<td>Long term - systemic</td>
<td>oral</td>
<td>NOAEL</td>
<td>9.1 mg/kg bw/day</td>
<td>repeated dose toxicity</td>
</tr>
<tr>
<td>Long term - local</td>
<td>dermal</td>
<td>NOAEL</td>
<td>0.051 mg/cm³</td>
<td>repeated dose toxicity</td>
</tr>
<tr>
<td>Long term - local</td>
<td>Inhalation</td>
<td>NOAEC</td>
<td>1.03 mg/m³</td>
<td>repeated dose toxicity</td>
</tr>
</tbody>
</table>
8.2. Exposure Controls
Engineering measures
Provide local exhaust or general ventilation adequate to maintain exposures below permissable exposure limits.

Personal protective equipment

General information
Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

Respiratory Protection
P2 Dust mask when airborne dust concentrations elevated.

Eye/Face Protection
Eye protection recommended. Chemical goggles consistent with EN 166 or equivalent.

Skin and Body Protection
Wear suitable protective clothing.

Hand Protection
Protective gloves: Neoprene gloves, Polyvinylchloride, Natural Rubber.

Hygiene measures
Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash hands before breaks and after shifts. Keep work clothes separate, remove contaminated clothing - launder after open handling of product.

Environmental exposure controls
The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Crystalline solid</td>
</tr>
<tr>
<td>Color</td>
<td>Light tan</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>No information available 6.6 (1% solution)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>Decomposes on heating 180 °C</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>No information available Decomposes upon heating</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No evidence of combustion up to 600°C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>oxidizer</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>6.07E-30 mm Hg at 25°C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Density</td>
<td>2.59 g/cm³ (crystal density) 1.68</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available (inorganic)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>575 g/l @ 25 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>(Solid)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>81 °C (SADT)</td>
</tr>
</tbody>
</table>

9.2. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk Density</td>
<td>1.12 No information available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>mixture</td>
</tr>
<tr>
<td>VOC content (%)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

10.1. Reactivity
None under normal use conditions

10.2. Chemical Stability

Stable under recommended storage conditions. Unstable if heated. Unstable on exposure to moisture. Unstable in presence of contamination.

10.3. Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to avoid


10.5. incompatible materials

Acids, alkalis, halides (fluorides, chlorides, bromides), combustible materials, reducing agents and organic compounds.

10.6. Hazardous Decomposition Products

Oxygen which supports combustion

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information.

LD50 Dermal

Sodium Persulfate: > 10 g/kg

LD50 Oral

Sodium Persulfate: 895 mg/kg (rat)

LC50 Inhalation

Sodium Persulfate: >5.10 mg/L (4h) (rat)

Skin Contact

Irritating to skin. Persulfates in general, specifically diammonium persulfate and dipotassium persulfate, exhibited skin irritation properties in human case reports, following occupational exposure and consumer use. Slightly or non-irritating (rabbit).

Eye Contact

Irritating to eyes. Has been shown to exhibit eye irritation properties in human case reports following occupational exposure and consumer use. Non-irritating (rabbit).

Inhalation

Respiratory sensitizer: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause irritation of respiratory tract. Respiratory irritation has been seen in workers exposed to persulfates. In animals, diammonium persulfate, produced pathological respiratory irritation in a subchronic study.

Ingestion

May be harmful if swallowed.

Chronic toxicity

Sensitization

Sodium Persulfate: May cause sensitization by inhalation and skin contact.

Neurological effects

Not neurotoxic.

Target organ effects

Eyes. Lungs.

Carcinogenicity

Contains no ingredient listed as a carcinogen.

Mutagenicity

Did not show mutagenic effects in animal experiments

Reproductive toxicity

Diammonium persulfate did not affect fertility or the developing fetus in animal studies (NOAEL: 250 mg/kg bw).

Developmental toxicity

None known.

Teratogenicity

Not teratogenic in animal studies.

12. ECOLOGICAL INFORMATION

12.1. Toxicity
Ecotoxicity effects

Ecotoxicity effects of component substances.

<table>
<thead>
<tr>
<th>Sodium Persulfate (7775-27-1)</th>
<th>duration</th>
<th>Species</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Persulfate</td>
<td>96 h LC50</td>
<td>Rainbow trout</td>
<td>163</td>
<td>mg/L</td>
</tr>
<tr>
<td>Sodium Persulfate</td>
<td>48 h LC50</td>
<td>Daphnia magna</td>
<td>133</td>
<td>mg/L</td>
</tr>
<tr>
<td>Sodium Persulfate</td>
<td>96 h LC50</td>
<td>Grass shrimp</td>
<td>519</td>
<td>mg/L</td>
</tr>
<tr>
<td>Sodium Persulfate</td>
<td>72 h EC50</td>
<td>Algae Selenastrum capricornutum</td>
<td>116</td>
<td>mg/L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to Microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade secret</td>
<td>72 h EC50: 0.43-0.80 mg/L</td>
<td>96 h LC50: 2.97 - 3.11 mg/L (Cyprinus carpio) 96 h LC50: 3.16 - 3.77 mg/L (Cyprinus carpio) 96 h LC50: = 2.3 mg/L (Lepomis macrochirus) flow-through 96 h LC50: 1.8 - 5.6 mg/L (Lepomis macrochirus) static 96 h LC50: = 2.7 mg/L (Lepomis macrochirus) 96 h LC50: 1.08 - 1.38 mg/L (Oncorhynchus mykiss) 96 h LC50: 0.769 - 1.27 mg/L (Oncorhynchus mykiss) static 96 h LC50: 3.3 - 3.93 mg/L (Carassius auratus) static</td>
<td>48 h EC50: 0.06 mg/L (daphnia magna)</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Biodegradability does not pertain to inorganic substances. The organic components are biodegradable and can be expected to contribute to BOD.

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Mobility in soil

Dissociates into ions.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment is not required for inorganic substances.

12.6. Other Adverse Effects

None known.
13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products  Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Product / Packaging disposal  Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated Packaging  Empty remaining contents. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

ADR/RID

UN/ID no  UN 1505
Proper Shipping Name  Sodium Persulfate Mixture
Hazard class  5.1
Packing Group  III

IMDG/IMO

UN/ID no  UN 1505
Proper Shipping Name  Sodium Persulfate Mixture
Hazard class  5.1
Packing Group  III

ICAO/IATA

UN/ID no  UN 1505
Proper Shipping Name  Sodium Persulfate Mixture
Hazard class  5.1
Packing Group  III

Transport Symbol

Special Precautions for users  According to United Nations "Recommendations on the transport of dangerous goods"

Transport in bulk according to MARPOL 73/78 and the IBC Code  See IMDG above

15. REGULATORY INFORMATION

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

International Inventories

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>TSCA (United States)</th>
<th>DSL (Canada)</th>
<th>EINECS/ELINCS (Europe)</th>
<th>ENCS (Japan)</th>
<th>China (IECSC)</th>
<th>KECL (Korea)</th>
<th>PICCS (Philippines)</th>
<th>AICS (Australia)</th>
<th>NZIoC (New Zealand)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Persulfate 7775-27-1</td>
<td>X</td>
<td>X</td>
<td>231-892-1</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>inorganic salt</td>
<td>X</td>
<td>X</td>
<td>231-760-3</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>organic salt</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
15.2. Chemical Safety Report

A Chemical Safety Assessment has been carried out for this substance.

16. OTHER INFORMATION

Full text of H-phrases referred to in sections 2 and 3
H272 - May intensify fire; oxidizer
H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
H412 - Harmful to aquatic life with long lasting effects

Issuing Date: 2018-10-30

Restrictions on Use
This product's foreseen or recommended applications are: In situ and ex situ chemical oxidation of contaminants and compounds of concern for environmental remediation applications.

Revision date: 2017-05-01
Revision note: SDS sections updated: 2

List of Abbreviations and Acronyms
ATE Acute Toxicity Estimate
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
AND European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CE50 Concentración Efectiva Media CEN European Committee for Standardisation
C&L Classification and Labelling
CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CLV Ceiling Limit Value Per CAS# Chemical Abstracts Service number
CMR Carcinogen, Mutagen, or Reproductive Toxicant
CSA Chemical Safety Assessment
CSR Chemical Safety Report
DNEL Derived No Effect Level
DOT Department of Transportation
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)
ECC 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)
FDS Ficha de Datos de Seguridad
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
IMO International Maritime Organization
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 Lethal Dose to 50% of a test population (Median Lethal Dose)
LE Legal Entity
LLV Level Limit Value
LoW List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
LR Lead RegistrantM/I Manufacturer / Importer MS Member States
MSDS Material Safety Data Sheet
NOEC No observed effect concentration
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
RCR Risk Characterization ratio
RID Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP REACH Implementation Project
RMM Risk Management Measure
SADT Self-accelerating decomposition temperature
SCBA Self-Contained Breathing Apparatus
SDS Safety data sheet
SIEF Substance Information Exchange Forum
SME Small and Medium sized Enterprises
STEL Short-term exposure limit
STOT Specific Target Organ Toxicity (STOT)
RE Repeated Exposure(STOT)
SE Single Exposure Par SVHC Substances of Very High Concern
TSCA Toxic Substances Control Act
TWA Time Weighed Average
UN United Nations
vPvB Very Persistent and Very Bioaccumulative / mPmB Muy Persistente y Muy Bioacumulativo
WGK Wassergefährdungsklassen

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End of Safety Data Sheet