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

1.1. Product Identifier

Product Name: KLOZUR® CR
Alternate Commercial Name: KLOZUR® CR 2018
Synonyms: Sodium Peroxydisulfate; Disodium Peroxydisulfate; Peroxydisulfuric acid, disodium salt; Peroxydisulfuric acid, sodium salt; Calcium Peroxide
EC-No: 231-892-1
REACH registration number: 01-2119495975-15-0001

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

Manufacturer/Supplier: PeroxyChem LCC
Only Representative: PeroxyChem Spain s.l.u.
C/ Aferas 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:
+1 703-527-3887 (CHEMTREC)
+1 303/ 389-1409 (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</th>
<th>Category</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 1</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</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: DANGER

Hazard Statements
- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- 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
- P405 - Store locked up

2.3. OTHER INFORMATION

General Hazards
Risk of decomposition by heat or by contact with incompatible materials
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. In case of contact, immediately flush eyes with plenty of water. If symptoms persist, call 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

For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16
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
Knock down dust with water spray. Recover the product in solid form, if possible. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up
Do not return product to the original storage container/tank due to risk of decomposition. Vacuum, shovel or pump waste into a drum and label contents for disposal. Store in closed container. Do not allow material to enter storm or sanitary sewer system. Clean up spill area and treat as special waste.

Never add other substances or combustible waste to product residues. Containers of contaminated waste material should be monitored for signs of decomposition (fuming or smoking).

6.4. Reference to other sections
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, Bases, Halides, Oxidizing agents, Strong reducing agents, Combustible materials.

7.3. Specific end uses

Refer to Section 1 and the Annex.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>European Union</th>
<th>The United Kingdom</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Persulfate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7775-27-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Hydroxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1305-62-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA 0.1 mg/m³</td>
<td>STEL 4 mg/m³</td>
<td>STEL 15 mg/m³</td>
<td>TWA 1 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 5 mg/m³</td>
<td>STEL 4 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Persulfate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7775-27-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Hydroxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1305-62-0</td>
<td>TWA 5 mg/m³</td>
<td>TWA 1 mg/m³</td>
<td>TWA 5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL 4 mg/m³</td>
<td>STEL 4 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Hydroxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1305-62-0</td>
<td>AGW 1 mg/m³</td>
<td></td>
<td>STEL 4 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA 1 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Persulfate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7775-27-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Hydroxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1305-62-0</td>
<td>TWA 1 mg/m³</td>
<td>TWA 1 mg/m³</td>
<td>TWA 2 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL 4 mg/m³</td>
<td>STEL 2 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Hydroxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1305-62-0</td>
<td>TLV 1 mg/m³</td>
<td>STEL 4 mg/m³</td>
<td>TWA 1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Binding STEL 4 mg/m³</td>
<td>TWA 1 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Hydroxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1305-62-0</td>
<td>TWA 1 mg/m³</td>
<td>TWA 2 mg/m³</td>
<td>TWA 1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL 4 mg/m³</td>
<td>STEL 4 mg/m³</td>
<td>STEL 4 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 6 mg/m³</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Hydroxide</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1305-62-0</td>
<td>TWA 1 mg/m³</td>
<td>TWA 1 mg/m³</td>
<td>TWA 1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL 4 mg/m³</td>
<td>STEL 4 mg/m³</td>
<td>Ceiling 4 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Derived No Effect Level (DNEL)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Romania</th>
<th>Bulgaria</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Hydroxide</td>
<td>STEL 4 mg/m³</td>
<td>STEL 4 mg/m³</td>
<td>S₁</td>
</tr>
<tr>
<td>1305-62-0</td>
<td>TWA 1 mg/m³</td>
<td>TWA 1 mg/m³</td>
<td>MAC 2 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Greece</th>
<th>Hungary</th>
<th>Croatia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Hydroxide</td>
<td>TWA 1 mg/m³</td>
<td>STEL 4 mg/m³</td>
<td>STEL 4 mg/m³</td>
</tr>
<tr>
<td>1305-62-0</td>
<td>STEL 4 mg/m³</td>
<td>TWA 1 mg/m³</td>
<td>TWA 1 mg/m³</td>
</tr>
</tbody>
</table>

**Predicted No Effect Concentration (PNEC)**

8.2. Exposure Controls

**Engineering measures**
Ensure adequate ventilation.

**Personal protective equipment**

<table>
<thead>
<tr>
<th>Protection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory</td>
<td>P2 Dust mask when airborne dust concentrations</td>
</tr>
<tr>
<td>Protection</td>
<td>elevated.</td>
</tr>
<tr>
<td>Eye/Face Protection</td>
<td>Eye protection recommended: Tightly fitting</td>
</tr>
<tr>
<td></td>
<td>safety goggles</td>
</tr>
<tr>
<td>Skin and Body</td>
<td>Wear suitable protective clothing.</td>
</tr>
<tr>
<td>Protection</td>
<td></td>
</tr>
<tr>
<td>Hand Protection</td>
<td>Protective gloves: Neoprene gloves, Polyvinyl</td>
</tr>
<tr>
<td></td>
<td>chloride, Natural Rubber</td>
</tr>
</tbody>
</table>

**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**
Prevent product from entering drains.

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>Fine granules</td>
</tr>
<tr>
<td>Color</td>
<td>Off-white</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>11.2 (1% solution)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not flammable No information</td>
</tr>
</tbody>
</table>
KLOZUR® CR

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point/Range</td>
<td>Decomposes on heating</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Decomposes</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Product is not self-ignitable.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>(5 to 30 % slurries) 1.0-1.9</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available (inorganic)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Slightly soluble</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available (Solid)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available &gt; 100 °C (assume)</td>
</tr>
</tbody>
</table>

9.2. OTHER INFORMATION

Bulk Density 830 kg/m³ 51.8 lb/cu ft (loose)

10. STABILITY AND REACTIVITY

10.1. Reactivity

Strong oxidizer

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

Contains a strong oxidizer and will react violently with flammable or reducing agents. Oxidizable material can be ignited by grinding and may become explosive.

10.4. Conditions to avoid

Heat (decomposes at temperatures >100 °C); Moisture.

10.5. incompatible materials

Acids, Bases, Halides, Oxidizing agents, Strong reducing agents, Combustible materials.

10.6. Hazardous Decomposition Products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

LD50 Dermal  No data available for the formulation. > 10,000 mg/kg (rabbit) Sodium Persulfate
LD50 Oral  No data available for the formulation. 895 mg/kg (rat) Sodium Persulfate
LC50 Inhalation  No data available for the formulation. = > 5.1 mg/L (4-hr) (rat) Sodium Persulfate

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  Corrosive to the eyes and may cause severe damage including blindness.
Inhalation

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. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ingestion

May be harmful if swallowed.

Chronic toxicity

Sensitization

Sensitizing to skin and respiratory system. Positive in a local lymph node assay. (based on components).

Target organ effects

Eyes. Skin. Respiratory System.

Carcinogenicity

Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

Mutagenicity

This product is not recognized as mutagenic by Research Agencies

Reproductive toxicity

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

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

<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>Calcium Hydroxide</td>
<td>96 h LC50: = 160 mg/L (Gambusia affinis) static</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Biodegradability does not pertain to inorganic substances.

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**

Should not be released into the environment. It must undergo special treatment, e.g. at suitable disposal site, to comply 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 1479
- **Proper Shipping Name**: OXIDIZING SOLID N.O.S.
- **Hazard class**: 5.1
- **Packing Group**: II

#### IMDG/IMO

- **UN/ID no**: UN 1479
- **Proper Shipping Name**: OXIDIZING SOLID N.O.S.
- **Hazard class**: 5.1
- **Packing Group**: II
- **Proper Shipping Name**: SODIUM PERSULFATE

#### ICAO/IATA

- **UN/ID no**: UN 1479
- **Proper Shipping Name**: OXIDIZING SOLID N.O.S.
- **Hazard class**: 5.1
- **Packing Group**: II

**Transport Symbol**

![Transport Symbol](image)

#### Environmental Hazards

This product contains no chemical substance that is listed as a marine pollutant according to DOT

#### 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</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>
</tbody>
</table>
Directive 2008/98/EC on waste
Applicable
Major Accidents (Directive 2012/18/EU)
Included for storage of quantities exceeding 50 Tm
CWC (Chemical Weapons Convention) - Annex on Chemicals
Not applicable

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

Issuing Date: 2015-07-20
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: 2019-12-16
Revision note
SDS sections updated: 1

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
CLP Classification and Labelling
CLV Ceiling Limit Value Par 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)
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
Euphac 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 Weighted 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