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

**1.1 Product identifier:** Copper (II) nitrate, trihydrate  
CAS: 10031-43-3  
EC: Non-applicable  
Index: Non-applicable  
REACH: 01-211969290-34-XXXX  
Formula: Cu(NO₃)₂.3H₂O  
Molecular weight: 241.6  

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Chemical sample for use in laboratories. For professional user/industrial user only.  
Uses advised against: All uses not specified in this section or in section 7.3  

**1.3 Details of the supplier of the safety data sheet:**  
Scientific & Chemical Supplies Limited  
Carlton House, Livingstone Road  
WV14 0QZ Bilston - England  
Phone.: +44 (0) 1902 402402 - Fax: +44 (0) 1902 402343  
customerservices@scichem.com  
www.scichem.com  

**1.4 Emergency telephone number:** +44 (0) 7919 258 784

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### SECTION 2: HAZARDS IDENTIFICATION  

**2.1 Classification of the substance or mixture:**  
CLP Regulation (EC) No 1272/2008:  
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.  
Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302  
Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400  
Eye Dam. 1: Serious eye damage, Category 1, H318  
Ox. Sol. 2: Combustible solids, Category 1, H272  
Skin Irrit. 2: Skin irritation, Category 2, H315  

**2.2 Label elements:**  
CLP Regulation (EC) No 1272/2008:  
Danger

Hazard statements:  
Acute Tox. 4: H302 - Harmful if swallowed  
Aquatic Acute 1: H400 - Very toxic to aquatic life  
Eye Dam. 1: H318 - Causes serious eye damage  
Ox. Sol. 2: H272 - May intensify fire, oxidiser  
Skin Irrit. 2: H315 - Causes skin irritation  

Precautionary statements:  
P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352: IF ON SKIN: Wash with plenty of 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  
P370+P378: In case of fire: Use ABC powder extinguisher to extinguish  
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively  

**2.3 Other hazards:**  
Product fails to meet PBT/vPvB criteria

---

**Changes with regards to the previous version**
Copper (II) Nitrate-Water

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Inorganic compounds

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Chemical name/Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 10031-43-3</td>
<td>Copper (II) nitrate, trihydrate</td>
<td>Self-classified</td>
</tr>
<tr>
<td>Regulation 1272/2008</td>
<td>Acute Tox. 4: H302; Aquatic Acute 1: H400; Eye Dam. 1: H318; Ox. Sol. 2: H272; Skin Irrit. 2: H315 - Danger</td>
<td>80 - &lt;100 %</td>
</tr>
</tbody>
</table>

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

Other information:

<table>
<thead>
<tr>
<th>Identification</th>
<th>M-factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (II) nitrate, trihydrate</td>
<td>Acute: 10, Chronic: 1</td>
</tr>
<tr>
<td>CAS: 10031-43-3</td>
<td>EC: Non-applicable</td>
</tr>
</tbody>
</table>

3.2 Mixture:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
SECTION 5: FIREFIGHTING MEASURES (continued)

5.3 Advice for firefighters:
Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:
Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:
Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.2 Environmental precautions:
Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:
It is recommended:
Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:
See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:
A.- Precautions for safe manipulation
Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions
Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations to prevent ergonomic and toxicological risks
Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks
Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal See sections 8 and 13.

7.2 Conditions for safe storage, including any incompatibilities:
A.- Technical measures for storage
Store in a cool, dry, well-ventilated location

B.- General conditions for storage
Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):
Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:
Substances whose occupational exposure limits have to be monitored in the workplace (EH40/2005 Workplace exposure limits):
Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

DNEL (Workers):
Non-applicable

DNEL (General population):
Non-applicable

PNEC:

<table>
<thead>
<tr>
<th>Identification</th>
<th>STP</th>
<th>Fresh water</th>
<th>0.23 mg/L</th>
<th>Soil</th>
<th>Marine water</th>
<th>0.0078 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (II) nitrate, trihydrate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 10031-43-3</td>
<td>Intermittent</td>
<td>Non-applicable</td>
<td>Sediment (Fresh water)</td>
<td>87 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC: Non-applicable</td>
<td>Oral</td>
<td>Non-applicable</td>
<td>Sediment (Marine water)</td>
<td>676 mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>PPE</th>
<th>Labelling</th>
<th>CEN Standard</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandatory hand protection</td>
<td>NON-disposable chemical protective gloves (NBR), Breakthrough Time 480 min, thickness 0.12 mm</td>
<td>CE CAT III</td>
<td>EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009</td>
<td>The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.</td>
</tr>
</tbody>
</table>

D.- Ocular and facial protection

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>PPE</th>
<th>Labelling</th>
<th>CEN Standard</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandatory face protection</td>
<td>Panoramic glasses against splash/projections.</td>
<td>CE CAT II</td>
<td>EN 166:2001 EN ISO 4007:2012</td>
<td>Clean daily and disinfect periodically according to the manufacturer’s instructions. Use if there is a risk of splashing.</td>
</tr>
</tbody>
</table>

E.- Body protection

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>PPE</th>
<th>Labelling</th>
<th>CEN Standard</th>
<th>Remarks</th>
</tr>
</thead>
</table>

F.- Additional emergency measures

<table>
<thead>
<tr>
<th>Emergency measure</th>
<th>Standards</th>
<th>Emergency measure</th>
<th>Standards</th>
</tr>
</thead>
</table>

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Volatile organic compounds:
With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 0 % weight
V.O.C. density at 20 ºC: 0 kg/m³ (0 g/L)
Average carbon number: Non-applicable
Average molecular weight: Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:
For complete information see the product datasheet.

Appearance:
Physical state at 20 ºC: Solid
Appearance: Crystalline
Colour: Blue
Odour: Odourless
Odour threshold: Non-applicable *

Vollatility:
Boiling point at atmospheric pressure: Non-applicable *
Vapour pressure at 20 ºC: Non-applicable *
Vapour pressure at 50 ºC: Non-applicable *
Evaporation rate at 20 ºC: Non-applicable *

Product description:
Density at 20 ºC: 2320 kg/m³
Relative density at 20 ºC: 2.32
Dynamic viscosity at 20 ºC: Non-applicable *
Kinematic viscosity at 20 ºC: Non-applicable *
Kinematic viscosity at 40 ºC: Non-applicable *
Concentration: Non-applicable *
pH: Non-applicable *
Vapour density at 20 ºC: Non-applicable *
Partition coefficient n-octanol/water 20 ºC: Non-applicable *
Solubility in water at 20 ºC: Non-applicable *
Solubility properties: Highly soluble
Decomposition temperature: Non-applicable *
Melting point/freezing point: 114 ºC
Explosive properties: Non-applicable *
Oxidising properties: H272 May intensify fire, oxidiser

Flammability:
Flash Point: Non-applicable
Flammability (solid, gas): Non-applicable *
Autoignition temperature: Non-applicable *
Lower flammability limit: Non-applicable *
Upper flammability limit: Non-applicable *

Explosive:
*Not relevant due to the nature of the product, not providing information property of its hazards.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

9.2 Other information:
- Lower explosive limit: Non-applicable *
- Upper explosive limit: Non-applicable *
- Surface tension at 20 °C: Non-applicable *
- Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:
No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:
Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:
Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:
Applicable for handling and storage at room temperature:

<table>
<thead>
<tr>
<th>Shock and friction</th>
<th>Contact with air</th>
<th>Increase in temperature</th>
<th>Sunlight</th>
<th>Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

10.5 Incompatible materials:

<table>
<thead>
<tr>
<th>Acids</th>
<th>Water</th>
<th>Oxidising materials</th>
<th>Combustible materials</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avoid strong acids</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Avoid direct impact</td>
<td>Avoid alkalis or strong bases</td>
</tr>
</tbody>
</table>

10.6 Hazardous decomposition products:
See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:
The experimental information related to the toxicological properties of the product itself is not available.

Dangerous health implications:
In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):
- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):
- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):
- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- CONTINUED ON NEXT PAGE -
SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  - IARC: Non-applicable
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
  - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
F- Specific target organ toxicity (STOT) - single exposure:
  Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
H- Aspiration hazard:
  Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
Other information:
  Non-applicable
Specific toxicology information on the substances:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Acute toxicity</th>
<th>Genus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (II) nitrate, trihydrate</td>
<td>LD50 oral 500 mg/kg (ATEi)</td>
<td></td>
</tr>
<tr>
<td>CAS: 10031-43-3</td>
<td>LD50 dermal Non-applicable</td>
<td></td>
</tr>
<tr>
<td>EC: Non-applicable</td>
<td>LC50 inhalation Non-applicable</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Acute toxicity</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper (II) nitrate, trihydrate</td>
<td>LC50 0.1 - 1 mg/L (96 h)</td>
<td>Fish</td>
</tr>
<tr>
<td>CAS: 10031-43-3</td>
<td>EC50 0.1 - 1 mg/L (48 h)</td>
<td>Crustacean</td>
</tr>
<tr>
<td>EC: Non-applicable</td>
<td>EC50 0.1 - 1 mg/L (72 h)</td>
<td>Algae</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability:
Not available

12.3 Bioaccumulative potential:
Not available

12.4 Mobility in soil:
Not available

12.5 Results of PBT and vPvB assessment:
Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:
Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:
SECTION 13: DISPOSAL CONSIDERATIONS (continued)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Waste class (Regulation (EU) No 1357/2014)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 03 03*</td>
<td>inorganic wastes containing hazardous substances</td>
<td>Dangerous</td>
</tr>
</tbody>
</table>

Type of waste (Regulation (EU) No 1357/2014):

HP2 Oxidising, HP14 Ecotoxic, HP4 Irritant — skin irritation and eye damage, HP6 Acute Toxicity

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15.01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated


SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2017 and RID 2017:

14.1 UN number: UN1477

14.2 UN proper shipping name: NITRATES, INORGANIC, N.O.S. (Copper (II) nitrate, trihydrate)

14.3 Transport hazard class(es): 5.1

Labels: 5.1

14.4 Packing group: II

14.5 Environmental hazards: Yes

14.6 Special precautions for user

Special regulations: 511

Tunnel restriction code: E

Physico-Chemical properties: see section 9

Limited quantities: 1 kg

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

14.1 UN number: UN1477

14.2 UN proper shipping name: NITRATES, INORGANIC, N.O.S. (Copper (II) nitrate, trihydrate)

14.3 Transport hazard class(es): 5.1

Labels: 5.1

14.4 Packing group: II

14.5 Environmental hazards: Yes

14.6 Special precautions for user

Special regulations: Non-applicable

EmS Codes: F-A, S-Q

Physico-Chemical properties: see section 9

Limited quantities: 1 kg

Segregation group: Non-applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2018:
Copper (II) Nitrate-3-Water

**SECTION 14: TRANSPORT INFORMATION (continued)**

14.1 UN number: UN1477
14.2 UN proper shipping name: NITRATES, INORGANIC, N.O.S. (Copper (II) nitrate, trihydrate)
14.3 Transport hazard class(es): 5.1
14.4 Packing group: II
14.5 Environmental hazards: Yes
14.6 Special precautions for user: see section 9
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

**SECTION 15: REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable
- Article 95, REGULATION (EU) No 528/2012: Non-applicable
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Lower-tier requirements</th>
<th>Upper-tier requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>P8</td>
<td>OXIDISING LIQUIDS AND SOLIDS</td>
<td>50</td>
<td>200</td>
</tr>
<tr>
<td>E1</td>
<td>ENVIRONMENTAL HAZARDS</td>
<td>100</td>
<td>200</td>
</tr>
</tbody>
</table>

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc...):
- Non-applicable

Specific provisions in terms of protecting people or the environment:
- It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:
- The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348
- The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885
- Control of Substances Hazardous to Health Regulations 2002 (as amended)
- EH40/2005 Workplace exposure limits
- The Waste Regulations 2011, 2011 No. 988

15.2 Chemical safety assessment:
- The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

Legislation related to safety data sheets:
- This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks:
- CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16);
- Precautionary statements

Texts of the legislative phrases mentioned in section 2:
- H272: May intensify fire, oxidiser
- H302: Harmful if swallowed
- H315: Causes skin irritation
- H318: Causes serious eye damage
- H400: Very toxic to aquatic life
SECTION 16: OTHER INFORMATION (continued)

Texts of the legislative phrases mentioned in section 3:
The phrases indicated do not refer to the product itself, they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:
- Acute Tox. 4: H302 - Harmful if swallowed
- Aquatic Acute 1: H400 - Very toxic to aquatic life
- Eye Dam. 1: H318 - Causes serious eye damage
- Ox. Sol. 2: H272 - May intensify fire, oxidiser
- Skin Irrit. 2: H315 - Causes skin irritation

Advice related to training:
Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:
http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations and acronyms:
- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5-day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- LC50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log-POW: Octanol-water partition coefficient
- Koc: Partition coefficient of organic carbon