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

1.1 Product identifier: Ethanediol
   - CAS: 107-21-1
   - EC: 203-473-3
   - Index: 603-027-00-1
   - REACH: 01-2119456816-28-XXXX
   - Formula: \( \text{HOCH}_2\text{CHOH} \)
   - Molecular weight: 62.07

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

**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

2.2 Label elements:
   - CLP Regulation (EC) No 1272/2008:
     - Warning

   - Hazard statements:
     - Acute Tox. 4: H302 - Harmful if swallowed

   - Precautionary statements:
     - P264: Wash thoroughly after handling
     - P270: Do not eat, drink or smoke when using this product
     - P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell
     - P330: Rinse mouth
     - 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

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

3.1 Substance:
   - Chemical description: Organic compounds
   - Components:
     - In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:
Ethane 1-2 Diol

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

<table>
<thead>
<tr>
<th>Identification</th>
<th>Chemical name/Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 107-21-1</td>
<td>ETHANEDIOL</td>
<td>ATP CLP00</td>
</tr>
<tr>
<td>EC: 203-473-3</td>
<td>Regulation 1272/2008</td>
<td>80 - &lt;100 %</td>
</tr>
<tr>
<td>Index: 603-027-00-1</td>
<td>Acute Tox. 4: H302 - Warning</td>
<td></td>
</tr>
<tr>
<td>REACH01-2119456816-28-XXX</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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:**
  - In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,…), seek medical advice with this Safety data Sheet.
- **By eye contact:**
  - This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes.
- **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:
- Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED 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.

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:

- CONTINUED ON NEXT PAGE -
SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spill product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:
This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:
It is recommended:
Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

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
Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

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
It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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):

<table>
<thead>
<tr>
<th>Identification</th>
<th>Environmental limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane diol</td>
<td>WEL (8h) 20 ppm, 10 mg/m³</td>
</tr>
<tr>
<td>CAS: 107-21-1</td>
<td>WEL (15 min) 40 ppm, 104 mg/m³</td>
</tr>
</tbody>
</table>

DNEL (Workers):

<table>
<thead>
<tr>
<th>Identification</th>
<th>Short exposure</th>
<th>Long exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Systemic</td>
<td>Local</td>
</tr>
<tr>
<td>Ethane diol</td>
<td>Oral</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>CAS: 107-21-1</td>
<td>Dermal</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>EC: 203-473-3</td>
<td>Inhalation</td>
<td>Non-applicable</td>
</tr>
</tbody>
</table>

DNEL (General population):
### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

<table>
<thead>
<tr>
<th>Identification</th>
<th>Short exposure</th>
<th>Long exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral</td>
<td>Dermal</td>
</tr>
<tr>
<td></td>
<td>Systemic</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>Non-applicable</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>Ethane 1-2 Diol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 107-21-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC: 203-473-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### PNEC:

<table>
<thead>
<tr>
<th>Identification</th>
<th>STP</th>
<th>Fresh water</th>
<th>Marine water</th>
<th>Sediment (Fresh water)</th>
<th>Sediment (Marine water)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane 1-2 Diol</td>
<td>184.5 - 214.5 mg/L</td>
<td>-5 - 25 mg/L</td>
<td>-14 - 16 mg/L</td>
<td>22 - 52 mg/kg</td>
<td>-11.3 - 18.7 mg/kg</td>
</tr>
<tr>
<td>CAS: 107-21-1</td>
<td>-13.47 - 16.53 mg/kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC: 203-473-3</td>
<td>-5 - 25 mg/L</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 8.2 Exposure controls:

- **A.- General security and hygiene measures in the workplace**
  
  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></td>
<td>NON-disposable chemical protective gloves (NBR), Breakthrough Time 480 min, thickness 0.12 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mandatory hand protection</td>
<td>En</td>
<td></td>
<td></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></td>
<td>Panoramic glasses against splash/projections.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 166:2001</td>
<td>EN ISO 4007:2012</td>
<td></td>
<td>Clean daily and disinfect periodically according to the manufacturer’s instructions. Use if there is a risk of splashing.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mandatory face protection</td>
<td>En</td>
<td></td>
<td></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>
<tbody>
<tr>
<td></td>
<td>Work clothing</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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

#### Volatile organic compounds:

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

- **V.O.C. (Supply):** 0 % weight
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>V.O.C. density at 20 ºC:</td>
<td>0 kg/m³ (0 g/L)</td>
</tr>
<tr>
<td>Average carbon number:</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>Average molecular weight:</td>
<td>Non-applicable</td>
</tr>
</tbody>
</table>

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: Liquid
- Appearance: Not available
- Colour: Colourless
- Odour: Pleasant
- Odour threshold: Non-applicable *

**Vapour properties:**
- Boiling point at atmospheric pressure: 197 ºC
- Vapour pressure at 20 ºC: 6 Pa
- Vapour pressure at 50 ºC: 0.48 (0.06 kPa)
- Evaporation rate at 20 ºC: Non-applicable *

**Product description:**
- Density at 20 ºC: 1113 kg/m³
- Relative density at 20 ºC: 1.113
- Dynamic viscosity at 20 ºC: 21.26 cP
- Kinematic viscosity at 20 ºC: 19.1 cSt
- 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: Soluble
- Decomposition temperature: Non-applicable *
- Melting point/freezing point: -13 ºC
- Explosive properties: Non-applicable *
- Oxidising properties: Non-applicable *

**Flammability:**
- Flash Point: 111 ºC
- Flammability (solid, gas): Non-applicable *
- Autoignition temperature: 400 ºC
- Lower flammability limit: 3.2 % Volume
- Upper flammability limit: 21.6 % Volume

**Explosive:**
- Lower explosive limit: Non-applicable *
- Upper explosive limit: Non-applicable *

9.2 Other information:

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

- Surface tension at 20 ºC: 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>Combustive 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>Not applicable</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.

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health.

**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: 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.

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: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: 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.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
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>Ethanal</td>
<td>LD50 oral 500 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>CAS: 107-21-1</td>
<td>LD50 dermal 9530 mg/kg</td>
<td>Rabbit</td>
</tr>
<tr>
<td>EC: 203-473-3</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>
<th>Genus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanal</td>
<td>LC50 53000 mg/L (96 h)</td>
<td>Pimephales promelas</td>
<td>Fish</td>
</tr>
<tr>
<td>CAS: 107-21-1</td>
<td>EC50 51000 mg/L (48 h)</td>
<td>Daphnia magna</td>
<td>Crustacean</td>
</tr>
<tr>
<td>EC: 203-473-3</td>
<td>EC50 24000 mg/L (168 h)</td>
<td>Selenastrum capricornutum</td>
<td>Algae</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Degradability</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanal</td>
<td>BOD5 0.47 g O2/g</td>
<td>Concentration 100 mg/L</td>
</tr>
<tr>
<td>CAS: 107-21-1</td>
<td>COD 1.29 g O2/g</td>
<td>Period 14 days</td>
</tr>
<tr>
<td>EC: 203-473-3</td>
<td>BOD5/COD 0.36 % Biodegradable 90 %</td>
<td></td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Bioaccumulation potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanal</td>
<td>BCF 10</td>
</tr>
<tr>
<td>CAS: 107-21-1</td>
<td>Pow Log -1.36</td>
</tr>
<tr>
<td>EC: 203-473-3</td>
<td>Potential Low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Absorption/desorption</th>
<th>Volatility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanal</td>
<td>Koc Conclusion Very High</td>
<td>Henry 1.327E-1 Pa m²/mol</td>
</tr>
<tr>
<td>CAS: 107-21-1</td>
<td>Surface tension 4.989E-2 N/m (25 °C)</td>
<td>Moist soil No</td>
</tr>
<tr>
<td>EC: 203-473-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 12: ECOLOGICAL INFORMATION (continued)

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:

<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 05*</td>
<td>organic wastes containing hazardous substances</td>
<td>Dangerous</td>
</tr>
</tbody>
</table>

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

This product is not regulated for transport (ADR/RID,IMDG,IATA)

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:
Non-applicable

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.

Relevant instructions for use:
(Ethylene Glycol)

Other legislation:
SECTION 15: REGULATORY INFORMATION (continued)

- 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:
H302: Harmful if swallowed

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

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