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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Trade name</th>
<th>PETOL 480-4G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical name</td>
<td>Sucrose/Glycerol, propoxylated</td>
</tr>
<tr>
<td>EINECS EU (EC no.) for Sucrose, propoxylated</td>
<td>500-029-3</td>
</tr>
<tr>
<td>EINECS EU (EC no.) for Glycerol, propoxylated</td>
<td>500-044-5</td>
</tr>
<tr>
<td>CAS no. for Sucrose, propoxylated</td>
<td>9049-71-2</td>
</tr>
<tr>
<td>CAS no. for Sucrose, Glycerol, propoxylated</td>
<td>25791-96-2</td>
</tr>
<tr>
<td>REACH Registration number for Sucrose, propoxylated</td>
<td>01-2119458874-24-0009</td>
</tr>
<tr>
<td>REACH Registration number for Glycerol, propoxylated</td>
<td>01-2119484612-36-0000</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>530</td>
</tr>
<tr>
<td>Chemical characterization</td>
<td>UVCB/Cvasi-preparate</td>
</tr>
</tbody>
</table>

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

PETOL PZ 480-4G is a medium functional polyether polyol developed for the production of rigid polyurethane foams. It is used as a standard polyol for various rigid applications such as rigid block production, pipe insulation and continuous and discontinuous panel production process.

Relevant identified uses
Use in industrial settings:
Industrial use [SU8, SU9] Manufacturing of other substances [PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC 9, PROC15]
Industrial use [SU 10] Formulation, Repacking and Distribution (PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC 9, PROC15)
Industrial use [SU3]; Flexible Foam Industrial Use [PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC14, PROC15, PROC21]
Industrial use [SU3]-Rigid foam [PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 15, PROC 21]
Industrial use [SU3] in Coating [PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15]
Industrial use [SU3] ; Adhesives & Sealants [PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15]
Industrial use [SU3] ; Elastomers, TPU, Polyamide, Polyimide & Synthetic Fibres [PROC1, PROC2, PROC3, PROC4, PROC5, PROC7 PROC8a, PROC8b, PROC9, PROC14, PROC15]

Elaborated by: Technical & Development Department
Code: FDS 011
1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Name</th>
<th>S.C. OLTCHIM S.A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>1 Uzinei Street, 240050 Ramnicu Valcea, Romania</td>
</tr>
<tr>
<td>Phone N°</td>
<td>+40 250 701 785</td>
</tr>
<tr>
<td></td>
<td>+40 250 701 200 ext.2785, 3001, 3115</td>
</tr>
<tr>
<td>FAX N°</td>
<td>+40 250 739 760; +40 250 735 030</td>
</tr>
<tr>
<td>E-mail of competent person responsible for SDS in the MS or in the EU:</td>
<td><a href="mailto:tehnic@oltchim.com">tehnic@oltchim.com</a></td>
</tr>
</tbody>
</table>

1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>European Emergency N°:</th>
<th>112</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency telephone at the company:</td>
<td>+40/250/738141- available 24h/day/365days</td>
</tr>
<tr>
<td>For Romania- The institution responsible with providing information in case of a health emergency is The National Institute for Public Health, Department for the International Sanitary Regulation and Toxicological Information.</td>
<td>Telephone: 021.318.36.06, Opening hours: Monday - Friday from 8 a.m. to 3 p.m.</td>
</tr>
</tbody>
</table>
2. HAZARDS IDENTIFICATION

2.1 Classification of the substances or the mixture

2.1.1. Classification according to Regulation (EC) 1272/2008 (CLP)
Sucrose, propoxylated: Substance is not classified as dangerous according to Regulation (EC) 1272/2008-as further amended and completed
Glycerol, propoxylated: Substance is not classified as dangerous according to Regulation (EC) 1272/2008- as further amended and completed
As a consequence no classification is required for Petol 480-4G.

2.2. Label elements
Labeling according to Regulation (EC) 1272/2008 (CLP)
Signal word: No signal word

2.3 Other hazard
Substances do not meet the criteria for PBT / vPvB according to regulation 1907/2006, Annex XIII. No other hazards identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Identification name</th>
<th>CAS no</th>
<th>EC No</th>
<th>Weight % content (range)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucrose, propoxylated</td>
<td>9049-71-2</td>
<td>500-029-3</td>
<td>50-60</td>
</tr>
<tr>
<td>Glycerol, propoxylated</td>
<td>25791-96-2</td>
<td>500-044-5</td>
<td>40-50</td>
</tr>
</tbody>
</table>

Impurities

No impurities relevant for classification and labeling.

4. FIRST - AID MEASURES

4.1 Description of first aid measures

General Advice: IF exposed or if you feel unwell: Call a Poison Center or doctor/physician. Show this safety data sheet to the doctor in attendance.

Following inhaled: Due to low vapor pressure, this product is not likely to be inhaled when handled at room temperature. When material is heated and/or if a fine mist is being generated, local
ventilation and respiratory protection may be required. In this case symptoms may include cough and sometimes slight dizziness. Remove the affected person to fresh air. If any ill effects appear get medical attention immediately.

**Following skin contact:** Wash skin with soap and plenty of water immediately at least 15 minutes, until no evidence of chemical remains.

**Following eye contact:** Wash eyes immediately with large amounts of lukewarm water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains at least 15 minutes. Get medical attention immediately if pain, blinking, tears or redness persist.

**Following ingestion:** This product has a low to very low oral toxicity. Swallowing small amount of this product is not likely to cause injury. If a polyol is swallowed obtain emergency medical attention.

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

- Skin irritation / corrosion: not irritating.
- Eye irritation: not irritating
- The product is not sensitising.

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

No specific antidote. Treat symptomatically and supportively.

---

## 5. FIRE - FIGHTING MEASURES

### 5.1 Extinguishing media

- **Suitable extinguishing media:** Dry chemical, carbon dioxide, dry chemical, foam and water spray.
- **Unsuitable extinguishing media:** Do not use direct water stream as it may spread the fire.

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

- **Exposure hazards:** Polyether polyols are low in volatility are not considered serious fire hazard. However, in the presence of an existing fire, or under the proper conditions of heat and oxygen, PETOL polyols will burn. Heat or fire may produce decomposition products, which may be hazardous.

### 5.3 Advice for firefighters

- **Protection of the fire-fighters:** Firefighters should be equipment with protective equipment and self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

- **Fire Fighting Procedures:** Keep unnecessary and unprotected personnel away from entering. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Move container...
6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** No special protection. Ventilate area of leak or spill. Wear appropriate personal protective equipment (see section 8). Spills may cause very slippery surfaces. Spread granular cover.

6.2 Environmental precautions

**Environmental precautions:** Prevent contamination of ground and surface water by isolating the hazard area. Contain and recover liquid when possible. Keep closed containers and dispose according to all applicable federal, state or local environment regulations.

6.3 Methods and materials for containment and cleaning up

**Methods of cleaning up:** Absorb spills with dry sand, earth or similar non-combustible absorbent material then collect into drums for later disposal. Incinerate or bury in a licensed facility if permitted.

**Special precautions:** Do not use combustible materials, such as saw dust. Do not flush to sewer! Slippery walking! Spread granular cover!

6.4 Reference to other sections

Additional advice: Refer to sections 8, 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

**Handling:** No special measures required. It is not considered a hazardous material in most industrial operations. Sources of ignition such as smoking and open flames are prohibited where this compound is handled.

**Advice on general occupational hygiene:** Avoid inhalation or ingestion and contact with skin and eyes. General occupational hygiene measures are required to ensure safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no drinking, eating and smoking at the workplace. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

Code: FDS 011
7.2. Conditions for safe storage, including any incompatibilities

**Storage:** Store in tightly closed containers, in dry and well ventilated areas away from UV radiations, between 20-30°C. Product will absorb water if the product container is not secured properly. This may affect reactivity, appearance and performance. Therefore, keep drums tightly closed to prevent contamination. Use dry nitrogen or low dew point air for tank padding.

**Incompatible substances:** Avoid contact with strong acids, alkalis and oxidizers (like peroxides and hypochlorite salts), water. Avoid unintended contact with isocyanates.

**Incompatible materials:** Avoid contact with copper, copper alloys and zinc.

**Recommended storage & transport material:** Stainless steel, mild steel free of mild-scale or rust and maintained in a rust-free condition, mild steel drums lined inside, IBC Polyethylene (HDPE) tanks. Hoses should be of polypropylene, stainless steel or wire bound canvas.

7.3 Specific end use(s)

Please check the identified uses from Section 1.2.

---

8. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1 Control parameters

8.1.1. **Occupational Exposure limit values**

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Workers</th>
<th>Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acute effects</td>
<td>Acute effects</td>
</tr>
<tr>
<td></td>
<td>local</td>
<td>systemic</td>
</tr>
<tr>
<td></td>
<td>Chronic effects</td>
<td>Chronic effects</td>
</tr>
<tr>
<td></td>
<td>local</td>
<td>systemic</td>
</tr>
<tr>
<td>Oral (mg/kg bw/day)</td>
<td>No hazard identified</td>
<td>No hazard identified</td>
</tr>
<tr>
<td></td>
<td>No effect expected</td>
<td>No effect expected</td>
</tr>
<tr>
<td></td>
<td>No effect identified</td>
<td>No effect identified</td>
</tr>
<tr>
<td></td>
<td>No effect expected</td>
<td>No effect expected</td>
</tr>
<tr>
<td></td>
<td>No effect identified</td>
<td>No effect identified</td>
</tr>
<tr>
<td></td>
<td>No effect expected</td>
<td>No effect expected</td>
</tr>
<tr>
<td>Inhalation (mg/m³)</td>
<td>No hazard identified</td>
<td>No hazard identified</td>
</tr>
<tr>
<td></td>
<td>No effect expected</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td>No hazard identified</td>
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<tr>
<td></td>
<td>Local effects are not expected</td>
<td>29</td>
</tr>
<tr>
<td>Dermal (mg/kg bw/day)</td>
<td>No hazard identified</td>
<td>No hazard identified</td>
</tr>
<tr>
<td></td>
<td>No effect expected</td>
<td>13.9</td>
</tr>
<tr>
<td></td>
<td>No hazard identified</td>
<td>No hazard identified</td>
</tr>
<tr>
<td></td>
<td>Local effects are not expected</td>
<td>8.3</td>
</tr>
</tbody>
</table>

---

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

Code: FDS 011
SAFETY DATA SHEET
PETOL PZ 480-4G

Revision: 3  Last up date: September 15, 2011  Issued date: January 10, 2011  page 7 /16

PNECs

<table>
<thead>
<tr>
<th>Environmental protection target</th>
<th>PNEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshwater (mg/l)</td>
<td>0.2</td>
</tr>
<tr>
<td>Freshwater sediments (mg/kg sediment dw)</td>
<td>0.543</td>
</tr>
<tr>
<td>Marine water (mg/l)</td>
<td>0.02</td>
</tr>
<tr>
<td>Marine sediments (mg/kg ww)</td>
<td>0.0543</td>
</tr>
<tr>
<td>Aqua intermittent releases (1 mg/l)</td>
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</table>

Substance name: Glycerol, propoxylated EC: 500-044-5, CAS: 25791-96-2

DN(M)L

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Workers</th>
<th>Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acute effects</td>
<td>Acute effects</td>
</tr>
<tr>
<td></td>
<td>local</td>
<td>systemic</td>
</tr>
<tr>
<td>Oral (mg/kg bw/day)</td>
<td>No hazard identified</td>
<td>No hazard identified</td>
</tr>
<tr>
<td>Inhalation (mg/m³)</td>
<td>No hazard identified</td>
<td>No hazard identified</td>
</tr>
<tr>
<td>Dermal (mg/kg bw/day)</td>
<td>No hazard identified</td>
<td>No hazard identified</td>
</tr>
</tbody>
</table>

PNECs

<table>
<thead>
<tr>
<th>Environmental protection target</th>
<th>PNEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshwater (mg/l)</td>
<td>0.2</td>
</tr>
<tr>
<td>Freshwater sediments (mg/kg sediment dw)</td>
<td>0.52</td>
</tr>
<tr>
<td>Marine water (mg/l)</td>
<td>0.02</td>
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<tr>
<td>Marine sediments (mg/kg sediment dw)</td>
<td>0.052</td>
</tr>
<tr>
<td>Soil (mg/kg soil dw)</td>
<td>0.0665</td>
</tr>
<tr>
<td>STP (mg/l)</td>
<td>1000</td>
</tr>
</tbody>
</table>

8.2. Exposure control

8.2.1. Engineering controls: No special ventilation is recommended under anticipated conditions of normal use beyond that needed for normal comfort control. Good general ventilation should be sufficient for most conditions.
8.2.2. Personal Protection Equipment

**Eye / Face protection:** Use chemical safety goggles and/or a full face shield where splashing is possible. Equipment for eye protection should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Maintain eye wash fountain and quick-drench facilities in work area.

**Skin protection:** Not normally considered a skin hazard. Wear impervious protective clothing including boots, apron. Wash hands and other exposed area with soap and water before eating, drinking, smoking and when leaving work.

**Hand protection:** Handle with gloves which were inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. The selected protective gloves have to satisfy the specifications of the standard EN 374 derived from it. Examples of preferred glove barrier materials:
- Butyl rubber
- Nitrile/butadiene rubber
- Polyvinyl alcohol (“PVA”)
- Neoprene:
- Polyvinyl chloride (PVC or “vynil”)
- Natural rubber (“latex”)

For prolonged or frequently repeated contact a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended.

**NOTICE:** The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Respiratory protection:** No special respirator protection is recommended under anticipated conditions of normal use with adequate ventilation. However, if material is heated or sprayed, without sufficient ventilation use an approved air-purifying respirator. Organic vapor respirator with a particulate pre-filter may be worn if vapors are detected or irritating.

For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply.

**Other precautions:** Maintain shower, eye wash fountain and quick-drench facilities in work area.
9. PHYSICAL AND CHEMICAL PROPERTIES

General information
Appearance: Yellow-brown, clear oil liquid
Odor: Odourless

Important health, safety and environmental information
pH (methanol:water-10:1): 6-7
Boiling point: Decomposes
Flash point: 200°C
Flammability: Not flammable
Explosive properties: Not explosive
Oxidizing properties: No oxidizing properties
Vapor pressure, Pa at 25 °C: N/A
Specific gravity, at 25°C: 1.05 – 1.15, g/m³
Water solubility: Partially soluble
Partition coefficient (log K_{ow}): N/A
Vapor relative density (air=1): N/A
Dynamic viscosity, at 25°C: 6500-9000 cP

Other information
Melting point: N/A
Autoignition temperature: N/A

10. STABILITY AND REACTIVITY

10.1. Reactivity: Polyol reactivity varies with increasing primary hydroxyl content (at a constant unsat).

10.2 Chemical stability: Stable under normal temperature and pressure, but hygroscopic.

10.4 Conditions to avoid: Moisture, ignition sources and incompatibles.

10.5. Incompatible materials: Avoid contact with strong acids, alkalis and oxidizers such as peroxides and hypochlorite salts, water. Avoid unintended contact with isocyanates.

10.6. Hazardous decomposition products: Carbon monoxide, carbon dioxide and aliphatic fragments.

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

Code: FDS 011
## 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Conclusions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Absorption</strong></td>
<td>no bioaccumulation potential based on study results.</td>
</tr>
<tr>
<td><strong>Acute toxicity</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Glycerol, propoxylated</strong></td>
<td>Oral: (LD50) (rat-male/female) &gt; 2000 mg/kg bw as per OECD guideline 401</td>
</tr>
<tr>
<td></td>
<td>Dermal: (LD50) (rat-male-female) &gt; 2000 mg/kg bw as per OECD guideline 402.</td>
</tr>
<tr>
<td><strong>Sucrose, propoxylated</strong></td>
<td>Oral: (LD50) (rat-male/female): &gt; 2000 mg/kg bw as per OECD guideline 401</td>
</tr>
<tr>
<td></td>
<td>Dermal: (LD50) (rat-male/female) &gt; 5000 mg/kg bw (male/female) as per OECD guideline 434</td>
</tr>
<tr>
<td><strong>Irritation/Corrosion</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Glycerol, propoxylated</strong></td>
<td>Not irritating to skin or eye.</td>
</tr>
<tr>
<td><strong>Sucrose, propoxylated</strong></td>
<td>Not irritating to skin or eye.</td>
</tr>
<tr>
<td><strong>Sensitisation</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Glycerol, propoxylated</strong></td>
<td>Non-sensitizer using OECD 406 Buehler test.</td>
</tr>
<tr>
<td><strong>Sucrose, propoxylated</strong></td>
<td>Non-sensitiser according to a mouse LLNA study (OECD 429).</td>
</tr>
<tr>
<td><strong>Repeated dose toxicity</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Glycerol, propoxylated</strong></td>
<td>NOAEL (28 days repeated dose, Wistar): ≥ 1000 mg/kg bw.</td>
</tr>
<tr>
<td><strong>Sucrose, propoxylated</strong></td>
<td>NOAEL (28 days repeated dose, Wistar): ≥ 1000 mg/kg bw.</td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td>Genetic toxicity: negative</td>
</tr>
<tr>
<td><strong>Carcinogenity</strong></td>
<td>Product is of no concern with regard to carcinogenicity</td>
</tr>
<tr>
<td><strong>Toxicity for reproduction</strong></td>
<td>Product is not toxic for reproduction</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Toxicity for Sucrose, propoxylated

Acute (short-term) toxicity
Fish: *Danio rerio* / freshwater  LC50 (96 h): 6310 mg/L.  
Aquatic invertebrates: *Daphnia magna*  EC50/LC50: 9890 mg/L  
Algae/aquatic plants: *Desmodesmus subspicatus* – algae/ Fresh water EC50 (72 h): > 100 mg/L  
as per OECD Guideline 201

Chronic (long-term) toxicity
Fish: Waiving according to 2 of REACH Annex IX, long-term toxicity studies with fish do not need 
 to be conducted as based on the available short-term toxicity data the substance is not classified as hazardous.  
Aquatic invertebrates: *Daphnia magna* / Fresh water  NOEC (21 d): >= 10 mg/L (semistatic) as per  
OECD Guideline 211  
Algae and aquatic plants: *Desmodesmus subspicatus* / Fresh water species EC50 (72 h): > 100 mg/L  
as per OECD Guideline 201

12.1.2. Toxicity for Glycerol, propoxylated

Acute (short-term) toxicity
Fish: *Leuciscus idus* / freshwater species  LC50(96 h) >1000 mg/l, according to the OECD 203 guideline  
Aquatic invertebrates: *Daphnia magna* / Fresh water species  EC50 (48 h): > 100 mg/L, as per  
OECD Guideline 202  
Algae and aquatic plants: *Desmodesmus subspicatus* / Fresh water species  EC50 (72 h): > 100 mg/L (static), as per OECD Guideline 201

Chronic (long-term) toxicity
Fish: Waiving according to 2 of REACH Annex IX, long-term toxicity studies with fish do not need 
 to be conducted as based on the available short-term toxicity data the substance is not classified as hazardous.  
Aquatic invertebrates: *Daphnia magna* / Fresh water  NOEC (21 d): >= 10 mg/L (semistatic) as per  
OECD Guideline 211  
Algae and aquatic plants: *Desmodesmus subspicatus* / Fresh water  EC50 (72 h): > 100 mg/L (static) as per OECD Guideline 201

This information only concerns the above mentioned product and does not need to be 
valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.  
Code: FDS 011
Toxicity to soil macro-organisms: In accordance with column 2 of REACH Annexes IX and X, there is no need to further investigate the effects of the substance on terrestrial organisms.

Toxicity to terrestrial plants: In accordance with column 2 of REACH Annexes IX and X, there is no need to further investigate the effects of the substance on terrestrial organisms.

Toxicity to birds: In accordance with column 2 of REACH Annexes IX and X, there is no need to further investigate the effects of the substance on terrestrial organisms.

12.2. Persistence and degradability: The substance does not meet the PBT screening criteria as outlined in Directive 2006/121/EC (Appendix A).

12.3. Bioaccumulative potential: the substance does not meet the B/vB criterion.

12.4. Mobility in soil
The substance is not a PBT/vPvB, therefore the emission characterisation does not need to be conducted.

12.5. Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

13. DISPOSAL CONSIDERATIONS

This section contains generic advice and guidance.

13.1 Waste treatment methods

13.1.1 Product
Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

Waste Code: No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.
13.1.2. Packaging
Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Relevant European legislation regarding waste:


14. TRANSPORT INFORMATION

ADR: Petol 480-4G is not classified under ADR regulations.
RID: Petol 480-4G, propoxylated is not classified under RID regulations.

Maritime transport IMDG: Petol 480-4G is not classified under IMDG regulations.

Air transport ICAO/IATA: Petol 480-4G is not classified under IATA regulations.

15. REGULATORY INFORMATION

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

Relevant information regarding the European legislation
European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) Regulation referring to the International Carriage of Dangerous Goods by Rail (RID)
Authorization: Petol PZ 480-4G is not subject for authorization

Restrictions on use: no restriction

Other EU regulations: Petol PZ 480-4G is not subject to:
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer
- Regulation (EC) No 850/2004 on persistent organic pollutants
- Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals
- Directive 2012/18/EU - SEVESO III Directive

15.2 Chemical safety Assessment
An exposure assessment is not required as sucrose and glycerol propoxylated is not classified and labeled as hazardous materials according to Regulation (EC) No. 1272/2008.

16. OTHER INFORMATION
Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship.

16. 1. Abbreviation and acronyms (NOT ALL ARE USED IN THIS SDS)
AC Article category
ADR European agreement concerning the international carriage of dangerous goods by road
BSAF Bio soil accumulation factor
BCF Bio concentration factor
CAS Chemical Abstracts Service
CLP Classification, labelling and packaging
CMR Carcinogenic, mutagenic or toxic for reproduction
CSA/CSR Chemical safety assessment / Chemical safety report
DNEL Derived no effect level
EC10 Concentration of a substance where 10% of the population is affected
EC50 Concentration of a substance where 50% of the population is affected
ECHA European chemicals agency
EINECS EU list of existing chemical substances
EmS Emergency schedule
ERC Environmental release category
ES Exposure scenario
eSDS Extended safety data sheet
GHS Globally harmonised system
IATA-DGR International air transport association - dangerous goods regulations
ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.
Code: FDS 011
16.2. Key literature references
The information provided in this SDS is consistent with the information provided in the REACH CSRs for sucrose, propoxylated and glycerol, propoxylated. The CSRs contains a complete reference list for all data used. Non confidential data from the REACH registration dossiers of sucrose, propoxylated and glycerol, propoxylated are published by the ECHA, see
https://echa.europa.eu/information-on-chemicals/registered-substances and
http://echa.europa.eu/clp/c_1_inventory_en.asp
http://chelist.jrc.ec.europa.eu

16.3. Revision: Revision 3 replaced revision no.2 dated November 23, 2015
All chapters of this safety data sheet have been revised according to the provision of

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