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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Trade name</th>
<th>PETOL 360-4G</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>700</td>
</tr>
<tr>
<td>Chemical characterization</td>
<td>UVCB/Cvasi-prepate</td>
</tr>
</tbody>
</table>

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

PETOL PZ 360-4G is a medium functionality sucrose based polyether polyol with low viscosity. This polyol is used especially in polyol blends with high water levels for rigid polyurethane foam applications (wood imitation, conventional insulation application).

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, Polymide & Synthetic Fibres [PROC1, PROC2, PROC3, PROC4, PROC5, PROC7 PROC8a, PROC8b, PROC9, PROC14, PROC15]

Elaborated by: Technical & Development Department
Code: FDS 011
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Industrial use [SU3]; Composite Material Based on Wood/Mineral/Natural Fibres [PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC14, PROC15, PROC21]
Industrial use [SU3]; Foundry [PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC15]
Industrial use [SU3]; Other Composite Material [PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC13, PROC14, PROC15]

Use in professional settings:
Professional use [SU 22]; Rigid foam [PROC3, PROC4, PROC5, PROC8a, PROC10, PROC11]
Professional use [SU 22]; Coatings [PROC5, PROC8a, PROC10, PROC11, PROC13]
Professional use [SU 22]; Adhesives & Sealants [PROC4, PROC5, PROC8a, PROC10, PROC11, PROC13]
Professional use [SU 22]; Other Composite Material [PROC2, PROC3, PROC5, PROC8a, PROC14]

Uses by consumers
Consumer Use [21]; Coatings [PC9a]
Consumer Use [21]; Adhesives & Sealants [PC1]

Uses advise against: There are no uses advised against.

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</td>
<td><a href="mailto:tehnic@oltchim.com">tehnic@oltchim.com</a></td>
</tr>
<tr>
<td>responsible for SDS in the</td>
<td></td>
</tr>
<tr>
<td>MS or in the EU:</td>
<td></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</td>
<td>+40/250/738141- available 24h/day/365days</td>
</tr>
<tr>
<td>company:</td>
<td></td>
</tr>
<tr>
<td>For Romania- The institution</td>
<td>Telephone: 021.318.36.06, Opening hours: Monday -</td>
</tr>
<tr>
<td>responsible with providing</td>
<td>Friday from 8 a.m. to 3 p.m.</td>
</tr>
<tr>
<td>information in case of a</td>
<td></td>
</tr>
<tr>
<td>health emergency is The</td>
<td></td>
</tr>
<tr>
<td>National Institute for</td>
<td></td>
</tr>
<tr>
<td>Public Health, Department</td>
<td></td>
</tr>
<tr>
<td>for the International</td>
<td></td>
</tr>
<tr>
<td>Sanitary Regulation and</td>
<td></td>
</tr>
<tr>
<td>Toxicological Information.</td>
<td></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
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 360-4G.

2.2. Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

Signal word: No signal word

No label according to Reg. 1272/2008

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.

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Code: FDS 011
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.

If inhaled: Remove affected person to fresh air. If any ill effects appear get medical attention immediately.

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

In case of 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.

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

By skin contact: Skin contact with the product is not like to result in a significant irritation.
By eye contact: Contact with eyes not cause irritation.
By inhalation: Due to low vapor pressure at room temperature, Petol polyols alone are not likely to be inhaled.
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

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Code: FDS 011
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 equipped 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 from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage.

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.

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

Occupational Exposure Limit (OEL), 8 h TWA: Not established
Short-term exposure limit (STEL), 15 min: Not established

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Code: FDS 011
8.1.2. Information on monitoring procedures

**Substance name: Sucrose, propoxylated**  
EC: 500-029-3, CAS: 9049-71-2

<table>
<thead>
<tr>
<th>DN(M)L</th>
<th>Workers</th>
<th>Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route of exposure</td>
<td>Acute effects local</td>
<td>Acute effects 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>0.543</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>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>DN(M)L</th>
<th>Workers</th>
<th>Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route of exposure</td>
<td>Acute effects local</td>
<td>Acute effects systemic</td>
</tr>
<tr>
<td>Oral (mg/kg bw/day)</td>
<td>No hazard identified</td>
<td>No hazard identified</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
Prepared in accordance with Commission Regulation (EU) 830/2015
amending Regulation (EC) 1907/2006 (REACH)
PETOL PZ 360-4G

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<table>
<thead>
<tr>
<th>Inhalation (mg/m³)</th>
<th>No hazard identified</th>
<th>No effect expected</th>
<th>98</th>
<th>No hazard identified</th>
<th>No effect expected</th>
<th>Local effects are not expected</th>
<th>29</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal (mg/kg bw/day)</td>
<td>No hazard identified</td>
<td>No effect expected</td>
<td>13.9</td>
<td>No hazard identified</td>
<td>No effect expected</td>
<td>Local effects are not expected</td>
<td>8.3</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>
</tr>
<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”)
SAFETY DATA SHEET
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- 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 liquid
Odor  Odourless

Important health, safety and environmental information
pH (methanol:water-10:1)  5-7
Boiling point  Decomposes
Flash point  190°C
Flammability  Flammable under open flame
Explosive properties  Non 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

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Code: FDS 011
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.

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Conclusions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorption</td>
</tr>
</tbody>
</table>
| Acute toxicity | Glycerol, propoxylated  
Oral: LD50 (rat-male/female) > 2000 mg/kg bw as per OECD guideline 401  
Dermal: LD50 (rat-male-female) > 2000 mg/kg bw as per OECD guideline 402.  
Sucrose, propoxylated  
Oral: LD50 (rat-male/female): > 2000 mg/kg bw as per OECD guideline 401  
Dermal: LD 50 (rat-male/female) > 5000 mg/kg bw (male/female) as per OECD guideline 434 |
| Irritation/Corrosion | Glycerol, propoxylated  
Not irritating to skin or eye.  
Sucrose, propoxylated  
Not irritating to skin or eye. |
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PETOL PZ 360-4G

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<table>
<thead>
<tr>
<th>Sensitisation</th>
<th>Glycerol, propoxylated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Non sensitizer using OECD 406 Buehler test.</td>
</tr>
<tr>
<td></td>
<td>Sucrose, propoxylated</td>
</tr>
<tr>
<td></td>
<td>Non-sensitiser according to a mouse LLNA study (OECD 429).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Repeated dose toxicity</th>
<th>Glycerol, propoxylated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NOAEL (28 days repeated dose, Wistar): $\geq 1000 \text{ mg/kg bw.}$</td>
</tr>
<tr>
<td></td>
<td>Sucrose, propoxylated</td>
</tr>
<tr>
<td></td>
<td>NOAEL (28 days repeated dose, Wistar): $\geq 1000 \text{ mg/kg bw.}$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mutagenity</th>
<th>Genetic toxicity: negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenity</td>
<td>Product is of no concern with regard to carcinogenicity</td>
</tr>
</tbody>
</table>

| Toxicity for reproduction | Product is not toxic for reproduction |

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): $> 100 \text{ mg/L}$ 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): $> = 10 \text{ mg/L (semistatic as per OECD Guideline 211}$
Algae and aquatic plants: *Desmodesmus subspicatus* / Fresh water species EC50 (72 h): $> 100 \text{ mg/L}$ as per OECD Guideline 201

12.1.2. Toxicity for Glycerol, propoxylated

Acute (short-term) toxicity
Fish: *Leuciscus idus* / freshwater species  LC50(96 h) $> 1000 \text{ mg/l, according to the OECD 203 guideline}$

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Code: FDS 011
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

**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 360-4G is not classified as dangerous under ADR regulations.

RID: Petol 360-4G is not classified as dangerous under RID regulations.

Maritime transport IMDG: Petol 360-4G is not classified as dangerous under IMDG regulations.

Air transport ICAO/IATA: Petol 360-4G is not classified as dangerous under IATA regulations

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
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)
International Maritime Dangerous Goods (IMDG)

Authorization: Petol PZ 360-4G is not subject for authorization
Restrictions on use: no restriction

Other EU regulations: Petol PZ 360-4G 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 Petol PZ 360-4G is not classified and labeled as hazardous material 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)
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
Prepared in accordance with Commission Regulation (EU) 830/2015
amending Regulation (EC) 1907/2006 (REACH)

PETOL PZ 360-4G

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RID International rule for transport of dangerous substances by railway
SDS Safety data sheet
STOT Specific target organ toxicant
STP Sewage treatment plant
SU Sector of end use
TWA Time weighted average
vPvB Very persistent, very bioaccumulative

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
1272/2008 - as further amended and completed. The information provided in this SDS is consistent
with the information provided in the REACH CSRs for sucrose& propoxylated and glycerol,
propoxylated.

Disclaimer:

Oltchim provides the information contained herein in good faith but makes no representation as to
its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate
precautionary handling of the material by a properly trained person using this product. Individuals
receiving the information must exercise their independent judgment in determining its
appropriateness for a particular purpose. Furthermore, this safety data sheet is made up based on
the legal requirements as set by EC 1907/2006 (REACH) and EC Regulation 830/2015.