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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Trade name</th>
<th>PETOL 400-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical name</td>
<td>Glycerol, propoxylated</td>
</tr>
<tr>
<td>IUPAC name</td>
<td>alpha, alpha’, alpha’’-1,2,3-propanetriyltris[w-hydroxypoly(oxy-methyl-1,2-ethanediyl)]</td>
</tr>
<tr>
<td>EC name</td>
<td>Glycerol, propoxylated</td>
</tr>
<tr>
<td>EINECS EU (EC no.)</td>
<td>500-044-5</td>
</tr>
<tr>
<td>REACH Registration number</td>
<td>01-2119484612-36-0000</td>
</tr>
<tr>
<td>CAS no.</td>
<td>25791-96-2</td>
</tr>
</tbody>
</table>

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

Petol 400-3 is a polyol triol having a low viscosity used in Polyol blends for rigid polyurethane foam applications. If blended with other Petol polyols, it can vary physical and mechanical characteristics of semi-rigid and rigid polyurethane foams. It’s also used in the production of adhesives and coatings.

Table 1: Identified uses

<table>
<thead>
<tr>
<th>Use title</th>
<th>Sector of use (SU)</th>
<th>Code of SU</th>
<th>Process category Code</th>
<th>Environmental code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacture</td>
<td>Industrial</td>
<td>SU8, SU9, SU3</td>
<td>PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC 15</td>
<td>ERC 1, ERC 2, ERC 6c</td>
</tr>
<tr>
<td>Manufacturing of other substances</td>
<td>Industrial</td>
<td>SU8, SU9, SU3</td>
<td>PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC 9, PROC 15</td>
<td>ERC 2, ERC 3, ERC 6a</td>
</tr>
<tr>
<td>Formulating, Repackaging &amp; Distribution</td>
<td>Industrial</td>
<td>SU8, SU9, SU3</td>
<td>PROC1, PROC2, PROC3, PROC4, PROC 5, PROC8a, PROC8b, PROC</td>
<td>ERC 2, ERC 3, ERC 6c</td>
</tr>
</tbody>
</table>

Elaborated by: Technical & Development Department
Code: FDS 011
| Flexible Foam | SU3 | PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC14, PROC15, PROC21 | ERC 2, ERC 3, ERC 6c |
| Rigid Foam Industrial Use | Industrial | SU3 | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC15, PROC21 | ERC 2, ERC 3, ERC 6c |
| Coatings Industrial Use | Industrial | SU3 | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15 | ERC 2, ERC 3, ERC 6c |
| Adhesives & Sealants | Industrial | SU3 | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15 | ERC 2, ERC 3, ERC 6c |
| Elastomers, TPU, Polyamide, Polyimide & Synthetic Fibres | Industrial | SU3 | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15 | ERC 2, ERC 3, ERC 6c |
| Composite Material Based on Wood/Mineral/Natural Fibres Industrial Use | Industrial | SU3 | PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC14, PROC15, PROC21 | ERC 2, ERC 3, ERC 6c |
| Foundry Industrial Use | Industrial | SU3 | PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC15 | ERC 2, ERC 3, ERC 5 |
| Other Composite Material | Industrial | SU3 | PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, P PROC13, PROC14, PROC15 | ERC 2, ERC 3, ERC 6c |
| Rigid Foam professional use | Professional uses: Public domain | SU22 | PROC3, PROC4, PROC5, PROC8a, PROC10 | ERC 8c, ERC 8f |

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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)

Glycerol, propoxylated is not classified as dangerous according to Regulation (EC) 1272/2008- as further amended and completed.

2.2. Label elements

Labeling according to Regulation (EC) 1272/2008
Signal word: No signal word

No label according to Regulation (EC) 1272/2008.

2.3 Other hazard: The substance does not meet the criteria for PBT or vPvB substance.
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 % (w/w) content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol, propoxylated</td>
<td>25791-96-2</td>
<td>500-044-5</td>
<td>Up to 100</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 inhalation: 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.

Code: FDS 011
Following skin contact: Remove contaminated clothing and shoes, and wash before reuse. Wash skin with soap and plenty of water immediately at least 15 minutes, until no evidence of chemical remains. If skin irritation occurs give medical attention.

Following eye contact: Wash eyes immediately with large amounts of 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: Not expected to be an important route of entry into the body. The product has low to very low oral toxicity. If accidentally ingested, seek 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: not irritating material.

By inhalation: Due to low vapor pressure at room temperature, Petol polyols alone are not likely to be inhaled. Inhalation of vapors from heated materials may cause respiratory irritation and symptoms may include cough and sometimes slight dizziness.

The product is not sensitising.

Chronic effects: Based on available data, no chronic effects are expected.

4.3 Indication of immediate medical attention and special treatment needed

No specific antidote. Treat symptomatically and supportively. Inhalation of vapors from heated materials may cause respiratory irritation. Symptoms may include cough and sometimes slight dizziness. If any ill effects should occur, get the affected person to fresh air and obtain medical attention.

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: Glycerol propoxylated has a low vapors pressure and a flash point above 200°C and consequently are not considered to have a serious fire hazard. However, due the fact that it is an organic material, this polyol will burn under the right conditions of heat and oxygen supply or in...
presence of an existing fire. Heat from fire can generate hazardous vapors. Burning liquids may be moved by flushing water to protect personnel and minimize damage. Do not use direct water stream as it may spread the fire. **Hazardous combustion products:** Combustion products may include and are not limited to: carbon monoxide, carbon dioxide.

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 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. Spills may cause very slippery surfaces. Spread granular cover. Remove sources of ignition and surrounding the affected area.

**Environmental precautions:** Glycerol propoxylated is nonvolatile and water soluble, so environmental releases would tend to migrate toward or remain in water. Product would not persist in the environment and would be removed by biological wastewater-treatment facilities. The bioconcentration potential (tendency to accumulate in the food chain) for this product is low. In case of small spill absorbed with sand or sawdust. If a large spill does occur, the material should be captured, collected, and reprocessed or disposed of according to applicable governmental requirements.

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!
7. HANDLING AND STORAGE

7.1. Precautions for safe 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. Petol 400-3 is a hygroscopic product, thus handling should be realized in closed systems, under nitrogen blanked or using other appropriate systems in order to prevent any moisture contact.

Advice on general occupational hygiene: Avoid 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

Store in tightly closed containers/tanks, in dry and well ventilated areas away from UV radiation, between 20-30°C.

Prevent any moisture contamination as product is hygroscopic. 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. Drums should be stacked to a maximum of 3 high.

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: Glycerol propoxylated can be shipped and stored in stainless steel tanks, steel drums lined inside, IBC Polyethylene (HDPE) tanks. Mild steel free of mild-scale or rust and maintained in a rust-free condition can also use.

Hoses should be of polypropylene, stainless steel or wire bound canvas.

Precautions to be taken in handling and storing:

- Keep well ventilated the areas where the polyether ployol is stored and handled.
- When working with other polyether or other materials such as isocyanates in combination with Petol polyether polyols, please request and reference recommendations for safe handling from all suppliers.
SAFETY DATA SHEET

PETOL 400-3

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- Handle freshly polymerized parts with care. Be aware of potential hazards of toxic vapors and of heat cure.
- Do not stack fresh polyurethane buns. Stacking can cause create insulation of heat in the buns and can result in spontaneous combustion.
- Never expose polyurethane foam to an open flame or other high heat source.

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

8.1.2. Information on monitoring procedures
Substance name: Glycerol, propoxylated - EC: 500-044-5; CAS: 25791-96-2

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Workers</th>
<th>Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td></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>0.52</td>
</tr>
<tr>
<td>Marine water (mg/l)</td>
<td>0.02</td>
</tr>
</tbody>
</table>

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Code: FDS 011
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, if needed. 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.

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
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.

8.2.3. Environmental exposure control: The product does not pose any risk to the environment. Avoid uncontrolled release of the product in environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information
Appearance : Clear, viscous liquid
Odor : Odourless or mild odor

Important health, safety and environmental information
pH : N/A
Boiling point : Decomposes
Flash point : 200°C
Flammability : Not Flammable
Explosive properties : Non explosive
Oxidizing properties : No oxidizing properties
Vapor pressure, at 20°C : 0.003 Pa
Specific gravity, at 25°C : 1.05, g/m³
Water solubility : Miscible with water
Partition coefficient (log K_{ow}) : 0.73
Vapor relative density (air=1) : N/A
Dynamic viscosity, at 25°C : 330-430 cP

Other informations
Melting point : Not determined. Product decomposes at 290 °C
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 recommended storage conditions. Hygroscopic (attract water from atmosphere and environment). Contact with diisocyanates leads to an exothermically polymerization reaction.

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>Absorbtion</th>
<th>Conclusions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Glycerol, propoxylated</td>
</tr>
<tr>
<td>Oral: (LD_{50}(rat\text{-male/female}) &gt; 2000) mg/kg bw as per OECD guideline 401</td>
<td></td>
</tr>
<tr>
<td>Dermal: (LD_{50}) (rat\text{-male/female})( &gt; 2000) mg/kg bw as per OECD guideline 402.</td>
<td></td>
</tr>
<tr>
<td>Irritation/Corrosion</td>
<td>Glycerol, propoxylated</td>
</tr>
<tr>
<td>Not irritating to skin or eye.</td>
<td></td>
</tr>
<tr>
<td>Sensitisation</td>
<td>Glycerol, propoxylated</td>
</tr>
<tr>
<td>Non sensitizer using OECD 406 Buehler test.</td>
<td></td>
</tr>
<tr>
<td>Repeated dose toxicity</td>
<td>Glycerol, propoxylated</td>
</tr>
<tr>
<td>NOAEL (28 days repeated dose, Wistar): (\geq 1000) mg/kg bw.</td>
<td></td>
</tr>
<tr>
<td>Mutagenity</td>
<td>Genetic toxicity: negative</td>
</tr>
<tr>
<td>Carcinogenity</td>
<td>Product is of no concern with regard to carcinogenicity</td>
</tr>
<tr>
<td>Toxicity for reproduction</td>
<td>Product is not toxic for reproduction</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

12.1. Toxicity

Acute (short-term) toxicity

Fish: *Leuciscus idus* fresh water: LC50 (96 h) >1000 mg/L (according to OECD 203)
Aquatic invertebrates: *Daphnia magna* fresh water/static EC50 (48 h): > 100 mg/L
(as per OECD Guideline 202)
Algae/aquatic plants: *Desmodesmus subspicatus* fresh water/static 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/semistatic NOEC (21 d): >= 10 mg/L
(as per OECD Guideline 211)

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: In accordance with Column 2 of REACH Annex IX, the study does not need to be conducted as the substance can be expected to have a low potential for bioaccumulation (log KOW ≤3).

12.4. Mobility in soil: According OECD Guideline 121 (Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC);
The adsorption coefficient (Koc) of the test material has been determined to be <17.8, log 10 Koc < 1.25. Solubility in water was examined over the concentration range of 50-1000 g/l and was found to be totally miscible at pH 9.3.

12.5. Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not 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.

Do not heat or cut container with electric or gas torch.

Relevant European legislation regarding waste:

SAFETY DATA SHEET
Prepared in accordance with Commission regulation (EU) 830/2015 amending
Regulation (EC) No 1907/2006 (REACH)

PETOL 400-3

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waste, with subsequent modifications and additions

14. TRANSPORT INFORMATION

ADR: Petol 400-3 is not classified under ADR regulations.

RID: Petol 400-3 is not classified under RID regulations.

Maritime transport IMDG: Petol 400-3 is not classified under IMDG regulations.

Air transport ICAO/IATA: Petol 400-3 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
Parliament and of the Council regarding the Registration, Evaluation, Authorization and Restriction
of Chemicals (REACH) Regulation
Regulation (EC) no.1272/2008 of the European Parliament and of the Council on the Classification,
Labeling and Packaging of substances and mixtures.
Directive 2012/18/EU (SEVESO III) of the European Parliament and of the Council on the control
of major-accident hazards involving dangerous substances, amending and subsequently repealing
Council Directive 96/82/EC
deplete the ozone layer
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 400-3 is not subject to authorisation procedure.

Restrictions on use: no restriction

Other EU regulations: Petol 400-3 is not subject to:

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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
15.2 Chemical safety Assessment
An exposure assessment is not required as Petol 400-3 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)
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
IU Identified use
IUPAC International Union of Pure and Applied Chemistry
IBC code International code for the construction and equipment of ships carrying dangerous chemicals in bulk
IMDG International maritime dangerous goods
SAFETY DATA SHEET
Prepared in accordance with Commission regulation (EU) 830/2015 amending
Regulation (EC) No 1907/2006 (REACH
PETOL 400-3

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KP Partition coefficient
LC10 Lethal concentration of a substance that can be expected to cause death in 10% of the population
LC50 Lethal concentration of a substance that can be expected to cause death in 50% of the population
LD50 Lethal dose of a substance that can be expected to cause death in 50% of the population
NO(A)EC No observed (adverse) effect concentration
NO(A)EL No observed (adverse) effect level
OECD Organisation for economic co-operation and development
OEL Occupational exposure limit
PBT Persistent, bioaccumulative, and toxic
PC Product category
PNEC Predicted no-effect concentration
PROC Process category
REACH Registration, evaluation, authorisation and restriction of chemicals (i.e. Regulation (EC) No. 1907/2006)
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 CSR. The CSR contains a complete reference list for all data used. Non confidential data from the REACH registration dossier are published by the ECHA, see https://echa.europa.eu/information-on-chemicals/registered-substances; http://echa.europa.eu/clp/c_1_inventory_en.asp
http://chelist.jrc.ec.europa.eu

16.3. Revision: Revision 4 replaced revision no.3 dated November 23, 2015

All chapters of this safety data sheet have been revised according to the provision of Regulation (EC) No. 1907/2006, as amended by Regulation 830/2015, and Regulation (EC) No. 1272/2008 -consolidated. The information provided in this SDS is consistent with the information provided in the REACH CSR for Glycerol, propoxylated.

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.
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