1. Identification

Product identifier used on the label

**Pluronic® L 101**

**Recommended use of the chemical and restriction on use**

Recommended use*: Chemical

Suitable for use in industrial sector: chemical industry

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller’s sales agreement.

**Details of the supplier of the safety data sheet**

Company: BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

**Emergency telephone number**

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification**

Chemical family: polyglycol
Synonyms: PLURONIC L101

2. Hazards Identification


**Classification of the product**

No need for classification according to GHS criteria for this product.

**Label elements**

The product does not require a hazard warning label in accordance with GHS criteria.
3. Composition / Information on Ingredients


Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air.

If on skin:
Wash thoroughly with soap and water.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:
Rinse mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters
6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Use personal protective clothing. Information regarding personal protective measures see, section 8.

**Environmental precautions**
Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**
For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. For large amounts: Pump off product. Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

**Precautions for safe handling**
Keep container tightly closed. Protect from the effects of light.

Protection against fire and explosion:
No special precautions necessary.

**Conditions for safe storage, including any incompatibilities**
Further information on storage conditions: Keep in a cool place.

8. Exposure Controls/Personal Protection

**Advice on system design:**
Provide local exhaust ventilation to control vapours/mists.

**Personal protective equipment**

**Respiratory protection:**
Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

**Hand protection:**
Chemical resistant protective gloves

**Eye protection:**
Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

**Body protection:**
Body protection must be chosen based on level of activity and exposure.
**General safety and hygiene measures:**
Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Do not eat, drink or use tobacco while working.

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**9. Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>mild, of polyol</td>
</tr>
<tr>
<td>Colour</td>
<td>slightly milky, cloudy</td>
</tr>
<tr>
<td>pH value</td>
<td>5 - 7.5</td>
</tr>
<tr>
<td>(2.5 % (m))</td>
<td></td>
</tr>
<tr>
<td>Freezing point</td>
<td>approx. -23 °C</td>
</tr>
<tr>
<td>(1,013 hPa)</td>
<td></td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 149 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>205 °C</td>
</tr>
<tr>
<td>Autoignition</td>
<td>No data available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt; 0.1 mmHg</td>
</tr>
<tr>
<td>(25 °C)</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>1.02 g/cm3</td>
</tr>
<tr>
<td>(25 °C)</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>1.02</td>
</tr>
<tr>
<td>(25 °C)</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>1,020 kg/m3</td>
</tr>
<tr>
<td>Partitioning coefficient n-octanol/water (log Pow):</td>
<td>-1.58 (calculated)</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available.</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>800 mPa.s</td>
</tr>
<tr>
<td>(25 °C)</td>
<td></td>
</tr>
<tr>
<td>Particle size</td>
<td>The substance / product is marketed or used in a non solid or granular form.</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>(25 °C) insoluble</td>
</tr>
<tr>
<td>Other Information</td>
<td>If necessary, information on other physical and chemical parameters is indicated in this section.</td>
</tr>
</tbody>
</table>

---

**10. Stability and Reactivity**

**Reactivity**
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
No corrosive effect on metal.

**Chemical stability**
The product is stable if stored and handled as prescribed/indicated.

**Possibility of hazardous reactions**
The product is chemically stable.

**Conditions to avoid**
See MSDS section 7 - Handling and storage.

**Incompatible materials**
bases, acids, oxidizing agents

**Hazardous decomposition products**

Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No data available.

### 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### Acute Toxicity/Effects

**Oral**
- Type of value: LD50
- Species: rat
- Value: > 2,000 mg/kg

**Dermal**
- Type of value: ATE
- Value: > 5,000 mg/kg

**Skin**
- Species: rabbit
- Result: non-irritant
- Method: Draize test

**Eye**
- Species: rabbit
- Result: non-irritant
- Method: Draize test

#### Chronic Toxicity/Effects

**Teratogenicity**
Assessment of teratogenicity: No data available.

**Other Information**
The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

**Symptoms of Exposure**
No significant symptoms are expected due to the non-classification of the product.

### 12. Ecological Information
Toxicity

Toxicity to fish
LC50 (96 h) > 100 mg/l, Leuciscus idus
Analogous: Assessment derived from products with similar chemical character.

Aquatic invertebrates
EC50 (48 h) > 100 mg/l
Analogous: Assessment derived from products with similar chemical character.

Aquatic plants
EC50 (72 h) > 100 mg/l
Analogous: Assessment derived from products with similar chemical character.

Chronic toxicity to fish
No data available.

Chronic toxicity to aquatic invertebrates
No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms
Analogous: Assessment derived from products with similar chemical character. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Persistence and degradability

Assessment biodegradation and elimination (H2O)
is partially eliminated in sewage treatment plants

Bioaccumulative potential

Assessment bioaccumulation potential
The product has not been tested.

Mobility in soil

Assessment transport between environmental compartments
The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.

Additional information

Other ecotoxicological advice:
The product has not been tested. The statements on ecotoxicology have been derived from products of a similar structure and composition.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations. It is the waste generator’s responsibility to determine if a particular waste is hazardous under RCRA.
14. Transport Information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

<table>
<thead>
<tr>
<th>CERCLA RQ</th>
<th>CAS Number</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 LBS</td>
<td>75-56-9; 123-91-1</td>
<td>Propylene oxide; 1,4-dioxane</td>
</tr>
<tr>
<td>10 LBS</td>
<td>75-21-8</td>
<td>Ethylene Oxide</td>
</tr>
</tbody>
</table>

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

NFPA Hazard codes:
Health: 1  Fire: 1  Reactivity: 0  Special:

HMIS III rating
Health: 1  Flammability: 1  Physical hazard: 0

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2018/03/07
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