SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

CAS-No. : 1330-78-5

Product code : 00336

Chemical structure :

![Chemical structure image]

Synonyms : Tritolyl phosphate

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai - INDIA
T +91 22 6663 6663 - F +91 22 6663 6699
info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

- Serious eye damage/eye irritation, Category 2
- Hazardous to the aquatic environment — Acute Hazard, Category 1
- Hazardous to the aquatic environment — Chronic Hazard, Category 1

Full text of hazard classes and H-statements : see section 16
TRICRESYL PHOSPHATE Extra Pure
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
T; R39/23/24/25
N; R51/53
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP):
GHS07
GHS09
Signal word (CLP): Warning
Hazard statements (CLP):
H319 - Causes serious eye irritation.
H400 - Very toxic to aquatic life.
Precautionary statements (CLP):
P273 - Avoid release to the environment.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Name: TRICRESYL PHOSPHATE Extra Pure
CAS-No.: 1330-78-5
Full text of R- and H-statements: see section 16

3.2. Mixtures
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Wash with plenty of water/.... Get medical advice/attention.
First-aid measures after eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
First-aid measures after ingestion: Rinse mouth. Get medical advice/attention.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects after eye contact: Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Use personal protective equipment as required.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Very toxic to aquatic life.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: On land, sweep or shovel into suitable containers. Collect spillage.

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid contact with skin and eyes. Do not breathe vapours.
Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available
8.2. Exposure controls

Hand protection : Protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Molecular mass : 368.37 g/mol
Colour : Clear, pale yellow.
Odour : No data available
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : 265 °C
Flash point : 250 °C
Auto-ignition temperature : 410 °C
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 1.143 g/cm³
Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available
9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid
Direct sunlight. Air contact. Overheating.

10.5. Incompatible materials
Oxidizing agent.

10.6. Hazardous decomposition products
No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity:</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation:</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation:</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation:</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity:</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity:</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single exposure:</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure:</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard:</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - water</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability

**TRICRESYL PHOSPHATE Extra Pure (1330-78-5)**

Persistence and degradability: May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

| UN-No. (ADR) | 2574 |
| UN-No. (IMDG) | 2574 |
| UN-No. (IATA) | 2574 |
| UN-No. (ADN) | 2574 |
| UN-No. (RID) | 2574 |

14.2. UN proper shipping name

| Proper Shipping Name (ADR) | TRICRESYL PHOSPHATE |
| Proper Shipping Name (IMDG) | TRICRESYL PHOSPHATE |
| Proper Shipping Name (IATA) | Tricresyl phosphate |
| Proper Shipping Name (ADN) | TRICRESYL PHOSPHATE |
| Proper Shipping Name (RID) | TRICRESYL PHOSPHATE |

| Transport document description (ADR) | UN 2574 TRICRESYL PHOSPHATE, 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IMDG) | UN 2574 TRICRESYL PHOSPHATE, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA) | UN 2574 Tricresyl phosphate, 6.1, II, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (ADN) | UN 2574 TRICRESYL PHOSPHATE, 6.1, II, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (RID) | UN 2574 TRICRESYL PHOSPHATE, 6.1, II, ENVIRONMENTALLY HAZARDOUS |

14.3. Transport hazard class(es)

**ADR**

Transport hazard class(es) (ADR) : 6.1
### 14.4. Packing group

<table>
<thead>
<tr>
<th>Category</th>
<th>Packing group</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>II</td>
</tr>
<tr>
<td>IMDG</td>
<td>II</td>
</tr>
<tr>
<td>IATA</td>
<td>II</td>
</tr>
<tr>
<td>ADN</td>
<td>II</td>
</tr>
<tr>
<td>RID</td>
<td>II</td>
</tr>
</tbody>
</table>

### 14.5. Environmental hazards

Dangerous for the environment : Yes
TRICRESYL PHOSPHATE Extra Pure

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Marine pollutant : Yes
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport
  Classification code (ADR) : T1
  Limited quantities (ADR) : 100ml
  Excepted quantities (ADR) : E4
  Packing instructions (ADR) : P001, IBC02
  Mixed packing provisions (ADR) : MP15
  Portable tank and bulk container instructions (ADR) : T7
  Portable tank and bulk container special provisions (ADR) : TP2
  Tank code (ADR) : L4BH
  Tank special provisions (ADR) : TU15, TE19
  Vehicle for tank carriage : AT
  Transport category (ADR) : 2
  Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28
  Special provisions for carriage - Operation (ADR) : S9, S19
  Hazard identification number (Kemler No.) : 60
  Orange plates :

  - Tunnel restriction code (ADR) : D/E
  - EAC code : 2X

- Transport by sea
  Packing instructions (IMDG) : P001
  IBC packing instructions (IMDG) : IBC02
  Tank instructions (IMDG) : T7
  Tank special provisions (IMDG) : TP2
  EmS-No. (Fire) : F-A
  EmS-No. (Spillage) : S-A
  Stowage category (IMDG) : A
  Properties and observations (IMDG) : Colourless liquid. A mixture of isomers. Immiscible with water. Toxic if swallowed, by skin contact or by inhalation.
  MFAG-No : 151

- Air transport
  PCA Excepted quantities (IATA) : E4
  PCA Limited quantities (IATA) : Y641
  PCA limited quantity max net quantity (IATA) : 1L
  PCA packing instructions (IATA) : 654
  PCA max net quantity (IATA) : 5L
  CAO packing instructions (IATA) : 661
  CAO max net quantity (IATA) : 60L
  ERG code (IATA) : 6L
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
TRICRESYL PHOSPHATE Extra Pure is not on the REACH Candidate List
TRICRESYL PHOSPHATE Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Netherlands
SZW-lijst van kankerverwekkende stoffen : The substance is not listed
SZW-lijst van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: The substance is not listed

Denmark
Recommendations Danish Regulation: Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment
No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

<table>
<thead>
<tr>
<th>Aquatic Acute 1</th>
<th>Hazardous to the aquatic environment — Acute Hazard, Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td>R39/23/24/25</td>
<td>Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed</td>
</tr>
<tr>
<td>R51/53</td>
<td>Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</td>
</tr>
<tr>
<td>N</td>
<td>Dangerous for the environment</td>
</tr>
<tr>
<td>T</td>
<td>Toxic</td>
</tr>
</tbody>
</table>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.