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

1.1 Product identifier

Trade name : LEWATIT TP 272
Product code : 56849886

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

Use of the Substance/Mixture : Ion exchange, resins and catalysts

1.3 Details of the supplier of the safety data sheet

Supplier : LANXESS Deutschland GmbH
Production, Technology,
Safety & Environment
51369 Leverkusen, Germany
Telephone : +4922188852288
E-mail address of person responsible for the SDS : infosds@lanxess.com

1.4 Emergency telephone number

+44 0870 190 6777. National Chemical Emergency Centre

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

<table>
<thead>
<tr>
<th>Substance/Mixture</th>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye irritation, Category 2</td>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Aspiration hazard, Category 1</td>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>Long-term (chronic) aquatic hazard, Category 2</td>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th>Signal word</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Eye" /> <img src="image" alt="Warning" /> <img src="image" alt="Aquatic" /></td>
<td>Danger</td>
</tr>
</tbody>
</table>
Hazard statements:
- H304 May be fatal if swallowed and enters airways.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:
**Prevention:**
- P264 Wash skin thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear eye protection/ face protection.

**Response:**
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P331 Do NOT induce vomiting.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P391 Collect spillage.

**Storage:**
- P405 Store locked up.

**Disposal:**
- P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Chemical nature: styrene-divinylbenzene copolymer, Contains:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>bis(2,4,4-trimethyl/pentyl)phosphinic acid</td>
<td>83411-71-6</td>
<td>280-445-7</td>
<td>01-2119971080-45</td>
<td>Eye Irrit. 2; H319 Aquatic Chronic 2; H411</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td>Hydrocarbons, C4, 1,3-butadiene-</td>
<td>93685-81-5</td>
<td></td>
<td></td>
<td>Flam. Liq. 3; H226</td>
<td>&gt;= 20 - &lt; 25</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Get medical attention if adverse health effects persist or are severe.
If unconscious, place in recovery position and get medical attention immediately.
Maintain open airway.
Loosen tight clothing such as a collar, tie, belt or waistband.

In case of skin contact: Wash skin thoroughly with soap and water or use recognized skin cleanser.
Remove contaminated clothing and shoes.
Get medical attention if symptoms occur.
Wash contaminated clothing before re-use.
Thoroughly clean shoes before reuse.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed: Call a physician immediately.
If swallowed, call a poison control centre or doctor immediately.
Take victim immediately to hospital.
Rinse mouth with water.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If conscious, make the victim drink the following:
Give small amounts of water to drink.
Stop if the exposed person feels sick as vomiting may be
dangerous. Aspiration hazard if swallowed - can enter lungs and cause damage. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Never give anything by mouth to an unconscious person. Keep respiratory tract clear. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, call a physician. Immediately give large quantities of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Risks : See Section 11 for more detailed information on health effects and symptoms.

May be fatal if swallowed and enters airways. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂) Carbon monoxide Oxides of phosphorus

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.

6.2 Environmental precautions
Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up
Methods for cleaning up : Move containers from spill area.
Use a suitable vacuum cleaner.
High efficiency particulate air filter (HEPA filter)
Keep in suitable, closed containers for disposal.
Dispose of wastes in an approved waste disposal facility.
Do not dry sweep.

6.4 Reference to other sections
For personal protection see section 8.
For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling : Avoid formation of respirable particles.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.
## 7.2 Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers:** Take action to prevent static discharges. Keep away from direct sunlight or strong incandescent light. Do not allow to dry.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

**Recommended storage temperature:** -20 - 40 °C

**Further information on storage stability:** No decomposition if stored and applied as directed.

## 7.3 Specific end use(s)

**Specific use(s):** No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

**Eye protection:**
- Eye wash bottle with pure water
- Tightly fitting safety goggles
- Wear face-shield and protective suit for abnormal processing problems.

**Hand protection**

<table>
<thead>
<tr>
<th>Material</th>
<th>Wearing time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluorinated rubber</td>
<td>&lt; 60 min</td>
</tr>
<tr>
<td>Polyvinyl chloride</td>
<td>&lt; 60 min</td>
</tr>
<tr>
<td>Polychloroprene</td>
<td>&lt; 60 min</td>
</tr>
</tbody>
</table>

**Remarks:** After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Skin and body protection:** Wear protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Dust-protection mask if there is a risk of dust formation.
Filter type : P1 filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : beads
Colour : white, opaque
Odour : characteristic
Odour Threshold : No data available
pH : No data available
Melting point/freezing point : No data available
Boiling point/boiling range : No data available
Flash point : No data available
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Burning number : 5 (20 °C)
Method: VDI 2263-1
5 (100 °C)
Method: VDI 2263-1
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Relative density : No data available
Density : 0.97 g/cm³ (20 °C)
Bulk density : 500 - 550 kg/m³
Solubility(ies)
9.2 Other information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No decomposition if stored and applied as directed.

10.2 Chemical stability
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid
Conditions to avoid : Take measures to prevent the build up of electrostatic charge.

10.5 Incompatible materials
Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Not classified based on available information.

Components:

bis(2,4,4-trimethylpentyl)phosphinic acid:
Acute oral toxicity : LD50 (Rat): > 3,500 mg/kg
Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:

Acute oral toxicity: LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity: LC50 (Rat, male and female): > 4.951 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes
Remarks: Dosage caused no mortality
Highest producible concentration.

Acute dermal toxicity: LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation
Not classified based on available information.

Product:
Remarks: May cause skin irritation in susceptible persons.
Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Components:

bis(2,4,4-trimethylpentyl)phosphinic acid:
Species: Rabbit
Exposure time: 24 h
Remarks: Mild skin irritation

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:
Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation
Causes serious eye irritation.

Product:
Remarks: May cause irreversible eye damage.

Components:

bis(2,4,4-trimethylpentyl)phosphinic acid:
Species: Rabbit
Result: Irritating to eyes.

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:
Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation
Not classified based on available information.

Respiratory sensitisation
Not classified based on available information.

Components:

bis(2,4,4-trimethylpentyl)phosphinic acid:
Remarks: No known sensitising effect.

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.
GLP: yes

Germ cell mutagenicity
Not classified based on available information.

Components:

bis(2,4,4-trimethylpentyl)phosphinic acid:
Genotoxicity in vitro: Test system: Bacteria
Method: OECD Test Guideline 471
Result: negative

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:
Genotoxicity in vitro: Test system: Bacteria
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test system: Mammalian-Animal
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test system: Mammalian-Animal
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test system: Mammalian-Animal
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 479
Result: negative

Genotoxicity in vivo:
Species: Mammalian-Animal
Application Route: Inhalation
Method: OECD Test Guideline 478
Result: negative

Species: Mammalian-Animal
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Carcinogenicity
Not classified based on available information.

Components:

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:
Species: Mouse, (male)
Application Route: Inhalation
Exposure time: 105 weeks
Frequency of Treatment: 6 hours/day
NOAEL: >= 2,200 mg/m³
Method: OECD Test Guideline 453
Result: negative

Species: Mouse, (female)
Application Route: Inhalation
Exposure time: 105 weeks
Frequency of Treatment: 6 hours/day
NOAEL: 1,100 mg/m³
Method: OECD Test Guideline 453
Result: negative

Reproductive toxicity
Not classified based on available information.

Components:

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:
Effects on foetal development:
Species: Rat, female
Application Route: Inhalation
Duration of Single Treatment: 15 d
Frequency of Treatment: 6 hours/day
General Toxicity Maternal: NOAEL: >= 5,220 mg/m³
Developmental Toxicity: NOAEL: \geq 5,220 \text{mg/m}^3
Method: OECD Test Guideline 414
Result: No adverse effects

**STOT - single exposure**
Not classified based on available information.

**STOT - repeated exposure**
Not classified based on available information.

**Repeated dose toxicity**

**Components:**

**Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:**
Species: Rat, male and female
NOAEL: \geq 5,000 \text{mg/kg}
Application Route: Oral
Exposure time: 3 Months
Number of exposures: 7 days/week
Method: OECD Test Guideline 408
GLP: yes
Remarks: Subchronic toxicity

Species: Rat, male and female
NOAEL: \geq 1.16 \text{mg/l}
Application Route: Inhalation
Test atmosphere: vapour
Exposure time: 13 Weeks
Number of exposures: 6 hours/day
Method: OECD Test Guideline 413
GLP: yes
Remarks: Subchronic toxicity

**Aspiration toxicity**
May be fatal if swallowed and enters airways.

**Product:**
May be fatal if swallowed and enters airways.

**Components:**

**Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:**
May be fatal if swallowed and enters airways.

**Further information**

**Product:**
Remarks: Solvents may degrease the skin.
SECTION 12: Ecological information

12.1 Toxicity

**Components:**

**bis(2,4,4-trimethylpentyl)phosphinic acid:**

- **Toxicity to fish**
  - LC50 (Oncorhynchus mykiss (rainbow trout)): 22 mg/l
  - Exposure time: 96 h

- **Toxicity to daphnia and other aquatic invertebrates**
  - EC50 (Daphnia magna (Water flea)): 2.9 mg/l
  - Exposure time: 48 h

**Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:**

- **Toxicity to fish**
  - LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
  - Exposure time: 96 h
  - Method: OECD Test Guideline 203
  - GLP: yes
  - Remarks: Fresh water

- **Toxicity to daphnia and other aquatic invertebrates**
  - EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
  - Exposure time: 48 h
  - Method: OECD Test Guideline 202
  - GLP: yes
  - Remarks: Fresh water

- **Toxicity to algae**
  - EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1,000 mg/l
  - Exposure time: 72 h
  - Method: OECD Test Guideline 201
  - GLP: yes
  - Remarks: Fresh water

  - No observed adverse effect level (Pseudokirchneriella subcapitata (microalgae)): 1,000 mg/l
  - Exposure time: 72 h
  - Method: OECD Test Guideline 201
  - GLP: yes
  - Remarks: Fresh water

- **Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**
  - No observed adverse effect level: 1 mg/l
  - Exposure time: 21 Days
  - Species: Daphnia magna (Water flea)
  - Method: OECD Test Guideline 211
  - GLP: yes
  - Remarks: Fresh water
  - No toxicity at the limit of solubility

  - NOEC: 0.011 mg/l
  - Exposure time: 21 Days
  - Species: Daphnia magna (Water flea)
12.2 Persistence and degradability

**Components:**

**bis(2,4,4-trimethylpentyl)phosphinic acid:**
Biodegradability: Result: Not readily biodegradable. Biodegradation: 5.9% Exposure time: 28 d

**Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:**

12.3 Bioaccumulative potential

**Components:**

**bis(2,4,4-trimethylpentyl)phosphinic acid:**
Partition coefficient: n-octanol/water: log Pow: 5.9

**Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated:**

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment

**Product:**
Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

**Product:**
Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

<table>
<thead>
<tr>
<th>ADN</th>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN 3077</td>
<td>UN 3077</td>
<td>UN 3077</td>
<td>UN 3077</td>
<td>UN 3077</td>
</tr>
</tbody>
</table>

14.2 UN proper shipping name

<table>
<thead>
<tr>
<th>ADN</th>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BIS(2,4,4-TRIMETHYLPENTYL)PHOSPHINIC ACID)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BIS(2,4,4-TRIMETHYLPENTYL)PHOSPHINIC ACID)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BIS(2,4,4-TRIMETHYLPENTYL)PHOSPHINIC ACID)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BIS(2,4,4-TRIMETHYLPENTYL)PHOSPHINIC ACID)</td>
<td>Environmentally hazardous substance, solid, n.o.s. (BIS(2,4,4-TRIMETHYLPENTYL)PHOSPHINIC ACID)</td>
</tr>
</tbody>
</table>

14.3 Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADN</th>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
</tbody>
</table>
14.4 Packing group

**ADN**
- Packing group: III
- Classification Code: M7
- Hazard Identification Number: 90
- Labels: 9

**ADR**
- Packing group: III
- Classification Code: M7
- Hazard Identification Number: 90
- Labels: 9

**RID**
- Packing group: III
- Classification Code: M7
- Hazard Identification Number: 90
- Labels: 9

**IMDG**
- Packing group: III
- Labels: 9

**IATA (Cargo)**
- Packing instruction (cargo aircraft): 956: 400.00 KG
- Packing group: III
- Labels: 9
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

LEWATIT TP 272

Version: 1.0  Revision Date: 15.03.2019  SDS Number: 103000013084  Date of last issue: -  Country / Language: IE / EN(GB)

IATA (Passenger)
Packing instruction (passenger aircraft): 956: 400.00 KG
Packing group: III
Labels: 9

14.5 Environmental hazards

ADN
Environmentally hazardous: yes

ADR
Environmentally hazardous: yes

RID
Environmentally hazardous: yes

IMDG
Marine pollutant: yes

IATA (Passenger)
Environmentally hazardous: yes
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

LEWATIT TP 272

14.6 Special precautions for user
Hazard statements: Environmentally hazardous substance.
Irritating to skin and eyes.
Keep separated from foodstuffs.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable for product as supplied.

SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC): Not applicable
Schedules of Toxic Chemicals and Precursors

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: Neither banned nor restricted


<table>
<thead>
<tr>
<th>E2</th>
<th>ENVIRONMENTAL HAZARDS</th>
<th>Quantity 1</th>
<th>Quantity 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>200 t</td>
<td>500 t</td>
</tr>
</tbody>
</table>

Print Date: 22.05.2020
15.2 Chemical safety assessment
not applicable

SECTION 16: Other information

Full text of H-Statements
H226 : Flammable liquid and vapour.
H304 : May be fatal if swallowed and enters airways.
H319 : Causes serious eye irritation.
H411 : Toxic to aquatic life with long lasting effects.
H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations
Aquatic Chronic : Long-term (chronic) aquatic hazard
Asp. Tox. : Aspiration hazard
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals

Further information
Classification of the mixture: Classification procedure:
| Eye Irrit. 2 | H319          | Calculation method |
| Asp. Tox. 1 | H304          | Based on product data or assessment |
| Aquatic Chronic 2 | H411          | Calculation method |

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.