1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LEWATIT UltraPure 1297 MD

Product code : 57745650

Manufacturer or supplier’s details

Supplier : 朗盛化学(中国)有限公司
上海市黄浦区湖滨路150号企业天地商业中心5号楼6楼
200021, 中华人民共和国

Telephone : +862161096666

E-mail address of person responsible for the SDS : lxs-sds-china@lanxess.com

Emergency telephone number : +86 532 83889090

Supplier : LANXESS Chemical (China) Co., Ltd.
6th Floor, 5 Corporate Avenue
No. 150, Hu Bin Road Shanghai, 200021, People's Republic of China

Telephone : +862161096666

E-mail address of person responsible for the SDS : lxs-sds-china@lanxess.com

Emergency telephone : +86 532 83889090

Recommended use of the chemical and restrictions on use

Recommended use : Ion exchange, resins and catalysts

2. HAZARDS IDENTIFICATION

GHS Classification

Serious eye damage/eye irritation : Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H318 Causes serious eye damage.
Precautionary statements:

Prevention:
P280 Wear eye protection/ face protection.

Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Other hazards which do not result in classification
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylethenylbenzene, ethenylbenzene, diethenylbenzene polymer, methanaminiumN,N,N-trimethyl hydroxide</td>
<td>69011-18-3</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td>Ethylbenzene, ethylethenylbenzene, diethenylbenzene polymer, sulfonated</td>
<td>69011-20-7</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General advice: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

If inhaled: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact: Call a physician immediately. If on skin, rinse well with water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash contaminated clothing before re-use. Thoroughly clean shoes before reuse.

In case of eye contact: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital.
5. FIREFIGHTING MEASURES

| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | None known. |
| 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 Nitrogen oxides (NOx) |
| Specific extinguishing methods | 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. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for firefighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
Handling emergency procedures:
Avoid dust formation.
Avoid breathing dust.
No action shall be taken involving any personal risk or without suitable training.
Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilt material.
Ensure adequate ventilation.
In case of inadequate ventilation wear respiratory protection.

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.

Methods and materials for containment and cleaning up:
Move containers from spill area.
Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.
Avoid dust formation.
Do not dry sweep.
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.

7. HANDLING AND STORAGE

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

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.
Dispose of rinse water in accordance with local and national regulations.

Storage
Conditions for safe storage:
Take action to prevent static discharges.
Do not allow to dry.
Keep container tightly closed in a dry and well-ventilated place.
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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection: Dust-protection mask if there is a risk of dust formation.

Hand protection

Material: Polyvinyl chloride - PVC
Wearing time: < 60 min

Material: Nitrile rubber - NBR
Wearing time: < 60 min

Material: Polychloroprene - CR
Wearing time: < 60 min

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

Eye protection: Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

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

Hygiene measures: When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: solid

Colour: dark brown, transparent

Odour: slight, amine-like

Odour Threshold: No data available

pH: 7
Concentration: 10 %

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 : 2 (20 °C)
Method: VDI 2263-1

2 (100 °C)
Method: VDI 2263-1

Upper explosion limit / Upper flammability 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 : 1.13 kg/l (20 °C)
Bulk density : 650 - 750 kg/m³

Solubility(ies)
Water solubility : insoluble
Partition coefficient: n-octanol/water : No data available
Ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Molecular weight : No data available
10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Stable under recommended storage conditions.
Conditions to avoid : Contact with strong oxidising agents may cause hazardous reactions.
Take measures to prevent the build up of electrostatic charge.
Incompatible materials : Oxidizing agents
Hazardous decomposition products : No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity : LD50(Rat): > 5,000 mg/kg
Remarks: Test results on an analogous product

Components:
Ethylethenylbenzene, ethenylbenzene, diethenylbenzene polymer, methanaminiumN,N,N-trimethyl hydroxide:
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Ethylbenzene, ethylethenylbenzene, diethenylbenzene polymer, sulfonated:
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation
Not classified based on available information.

Product:
Result: No skin irritation
Remarks: Test results on an analogous product

Components:
Ethylethenylbenzene, ethenylbenzene, diethenylbenzene polymer, methanaminiumN,N,N-trimethyl hydroxide:
Result: No skin irritation
Remarks: Test results on an analogous product

**Ethylbenzene, ethylethenylbenzene, diethenylbenzene polymer, sulfonated:**
Result: No skin irritation
Remarks: Test results on an analogous product

**Serious eye damage/eye irritation**
Causes serious eye damage.

**Product:**
Result: Risk of serious damage to eyes.
Remarks: Test results on an analogous product

Remarks: May cause irreversible eye damage.

**Components:**

**Ethylethenylbenzene, ethenylbenzene, diethenylbenzene polymer, methanaminiumN,N,N-trimethyl hydroxide:**
Assessment: Risk of serious damage to eyes.
Remarks: Test results on an analogous product

**Ethylbenzene, ethylethenylbenzene, diethenylbenzene polymer, sulfonated:**
Assessment: Risk of serious damage to eyes.
Remarks: Test results on an analogous product

**Respiratory or skin sensitisation**

**Skin sensitisation**
Not classified based on available information.

**Respiratory sensitisation**
Not classified based on available information.

**Germ cell mutagenicity**
Not classified based on available information.

**Carcinogenicity**
Not classified based on available information.

**Reproductive toxicity**
Not classified based on available information.

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

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

Further information

Product:
Remarks: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects

Product:
Adsorbed organic bound halogens (AOX) : Remarks: The product does not contain organically bounded halogens which could lead to an AOX value in waste water.

Additional ecological information : The product is insoluble in water. Therefore, ecological tests have not been conducted. No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : Examine possibilities for re-utilisation. Product residues and uncleaned empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations. Where large quantities are concerned, consult the supplier. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste List (EWL). Where possible recycling is preferred to disposal or incineration.
This material and its container must be disposed of in a safe way.
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
If recycling is not practicable, dispose of in compliance with local regulations.

14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Hazard statements : Not dangerous cargo.
Risk of serious damage to eyes.
Keep separated from foodstuffs.

15. REGULATORY INFORMATION

National regulatory information

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

Hong Kong. Control of Chemicals Ordinance : Neither banned nor restricted

Hong Kong. Chemical Weapons (Convention) Ordinance (Cap. 578) (Schedule 1 Chemicals) : Neither banned nor restricted

Hong Kong. Chemical Weapons (Convention) Ordinance (Cap. 578) (Schedule 2 Chemicals) : Neither banned nor restricted

Hong Kong. Chemical Weapons (Convention) Ordinance (Cap. 578) (Schedule 3 Chemicals) : Neither banned nor restricted

Further information : Dangerous Goods Ordinance (Cap295)
Factories and Industrial Undertaking Ordinance (Cap59), F&IU (Dangerous Substances) Regulations
Other international regulations

16. OTHER INFORMATION

Full text of other abbreviations

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.