SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

LEWATIT UltraPure 1297 MD

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

1.1 Product identifier

Trade name : LEWATIT UltraPure 1297 MD
Product code : 57745650

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

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)
Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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.

Hazardous components which must be listed on the label:
Ethylethenylbenzene, ethenylbenzene, diethenylbenzene polymer, methanaminiumN,N,N-trimethyl hydroxide
Ethylbenzene, ethylethenylbenzene, diethenylenzene polymer, sulfonated

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

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Registration number</th>
<th>Classification</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></td>
<td></td>
<td></td>
<td>Eye Dam. 1; H318</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td>Ethylbenzene, ethylethenylbenzene, diethenylbenzene polymer, sulfonated</td>
<td>69011-20-7</td>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1; H318</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
</tbody>
</table>

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.
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.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed:
Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Risks:
Causes serious eye damage.

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

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:
No special measures required.
See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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
Nitrogen oxides (NOx)
5.3 Advice for firefighters

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.

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. 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.

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. 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.

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. 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.

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.
- 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. 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.

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

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.

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.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic 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: No data available

Lower explosion limit: No data available
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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

9.2 Other information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Stable under recommended storage conditions.

10.4 Conditions to avoid
Conditions to avoid : Contact with strong oxidising agents may cause hazardous reactions.
Take measures to prevent the build up of electrostatic charge.

10.5 Incompatible materials
Materials to avoid : Oxidizing agents
10.6 Hazardous decomposition products
No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

**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

SECTION 12: Ecological information

12.1 Toxicity
No data available
12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

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:**
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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

**Product** : 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.

SECTION 14: Transport information

14.1 UN number
Not regulated as a dangerous good

14.2 UN proper shipping name
Not regulated as a dangerous good

14.3 Transport hazard class(es)
Not regulated as a dangerous good

14.4 Packing group
Not regulated as a dangerous good

14.5 Environmental hazards
Not regulated as a dangerous good

14.6 Special precautions for user
Hazard statements: Not dangerous cargo. Risk of serious damage to 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) Schedules of Toxic Chemicals and Precursors: Not applicable
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

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for the monitoring of trade between the Community and third countries in drug precursors.

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable


15.2 Chemical safety assessment
not applicable

SECTION 16: Other information

Full text of H-Statements
H318 : Causes serious eye damage.

Full text of other abbreviations
Eye Dam. : Serious eye damage
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 Dam. 1 H318 Based on product data or assessment

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.