1. PRODUCT AND COMPANY IDENTIFICATION

Product code : 56814470
Chemical nature : styrene-divinylbenzene-copolymer with iminodiacetic acid groups in form of salt

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

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>beads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>beige, opaque</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
</tbody>
</table>

Not a hazardous substance or mixture.

GHS Classification
Not a hazardous substance or mixture.

GHS label elements
Not a hazardous substance or mixture.

Physical and chemical hazards
Not classified based on available information.
Health hazards
Not classified based on available information.

Environmental hazards
Not classified based on available information.

Other hazards which do not result in classification
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : styrene-divinylbenzene-copolymer with iminodiacetic acid groups in form of salt

Hazardous components
No hazardous ingredients
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. FIRST AID MEASURES

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

If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Keep respiratory tract clear.
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Maintain open airway.
Loosen tight clothing such as a collar, tie, belt or waistband.
Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and plenty of water.
Remove contaminated clothing and shoes.
Get medical attention if symptoms occur.

In case of eye contact : Get medical attention if symptoms appear.

If swallowed : Rinse mouth with water.
Give small amounts of water to drink.
Get medical attention if symptoms occur.
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : No symptoms known or expected.

Protection of first-aiders : No action shall be taken involving any personal risk or without
suitable training.

Notes to physician : No special measures required.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

Specific hazards during firefighting : none

Hazardous combustion products : Carbon monoxide
Carbon dioxide (CO2)
Nitrogen oxides (NOx)
Metal oxides

Specific extinguishing methods : 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. Do not touch or walk through spilt material. Put on appropriate personal protection equipment. Hazard of slipping on spilt product.

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. 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. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of wastes in an approved waste disposal facility. Do not allow into the sewerage system, surface waters or groundwater or into the soil.
7. HANDLING AND STORAGE

Handling
Advice on safe handling: Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Avoidance of contact: Oxidizing agents

Storage
Conditions for safe storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep containers sealed until ready for use. Do not store in unlabelled containers. Take action to prevent static discharges. Do not allow to dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Engineering measures: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment
Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter.
Filter type: P1 filter
Eye/face protection: Safety glasses with side-shields
Skin and body protection: Wear suitable protective clothing.
Hand protection
Material: Polyvinyl chloride - PVC
Wearing time: < 60 min
Material: Nitrile rubber - NBR
Wearing time: < 60 min

Hygiene measures: Appropriate techniques should be used to remove potentially
contaminated clothing. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>beads</td>
</tr>
<tr>
<td>Colour</td>
<td>beige, opaque</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour Threshold</td>
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</tr>
<tr>
<td>pH</td>
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</tr>
<tr>
<td>Melting point/range</td>
<td>&gt; 200 °C</td>
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<tr>
<td>Boiling point/boiling range</td>
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<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
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</tr>
<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>Upper explosion limit / Upper flammability limit</td>
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</tr>
<tr>
<td>Lower explosion limit</td>
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</tr>
<tr>
<td>Vapour pressure</td>
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<tr>
<td>Relative vapour density</td>
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</tr>
<tr>
<td>Relative density</td>
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</tr>
<tr>
<td>Density</td>
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</tr>
<tr>
<td>Bulk density</td>
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</tr>
<tr>
<td>Solubility(ies)</td>
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</tr>
<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>&gt; 300 °C</td>
</tr>
</tbody>
</table>
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 specific test data related to reactivity available for this product or its ingredients.
Chemical stability : The product is chemically stable.
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use. Auto-flammability
Conditions to avoid : No specific data.
Incompatible materials : Oxidizing agents
Hazardous decomposition products : No decomposition if stored normally.

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

Skin corrosion/irritation
Not classified based on available information.

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

Serious eye damage/eye irritation
Not classified based on available information.

Product:
Result: No eye irritation
Remarks: Test results on an analogous product
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:
No known significant effects or critical hazards.

The product is insoluble in water. Therefore, ecological tests
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. When uncleaned empty containers are passed on, the recipient must be warned of any possible hazard that may be caused by residues. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Contaminated packaging: Empty containers retain residue and can be dangerous. Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

National Regulations

China-DG GB 6944/12668
Not regulated as a dangerous good

Transportation Notes:
- Appropriate & sufficient fire-fighting facilities and spill emergency handling apparatus should be equipped with the transport vehicles.
In case of products with explosive, flammable, self-reactive, pyrophoric, self-heating and oxidizing properties:
- Tank cars used in transport should be equipped with a grounding chain; a porous separator plate may be provided in the tank car to reduce static electricity shocks.
- The exhaust pipes of vehicles used for shipping this product must be equipped with fire retardant devices. The use of mechanical equipment or tools prone to sparking is prohibited.
- Protect against exposure to sun, rain and high temperatures during transit; in summer, transport should ideally be in the morning or evening.
- Keep away from fire, heat and high temperature zones during stopovers.
- When transporting over public roads, select routes compliant with regulations and do not stop over in residential or densely populated areas.

Further information for transport: If packagings larger than 3 m³: dangerous good of division 4.2.

International Regulations

IATA-DGR
Not regulated as a dangerous good
IATA (Cargo)
Further information for transport (IATA (Passenger))

Further information for transport (IMDG-Code)

Further information for transport (Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code)

Hazard statements

15. REGULATORY INFORMATION

National regulatory information

Further information

16. OTHER INFORMATION

Full text of other abbreviations
<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Date of last issue:</th>
<th>Country / Language:</th>
</tr>
</thead>
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<td>103000009461</td>
<td>2017/11/26</td>
<td>CN / 6N</td>
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Disclaimer

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