MATERIAL SAFETY DATA SHEET

COPOLYMER OF VINYL CHLORIDE AND VINYL ISOBUTYL ETHER

Effective Date: 01/01/2013

SECTION 1 SUBSTANCE/PREPARATION

Product details:

PRODUCT CHEMICAL NAME: Copolymer of vinyl chloride and vinyl isobutyl ether

Trade name: VC-COPOLYMER MP RESIN

Description: fine white powder

<table>
<thead>
<tr>
<th>TEAM</th>
<th>STANDARD</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>fine white powder</td>
</tr>
<tr>
<td>Viscosity</td>
<td>25±5(MP25);35±5(MP35);45±5(MP45);60±8(MP60)</td>
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<tr>
<td>Chloride mass fraction(%)</td>
<td>44±1</td>
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<tr>
<td>Volatile(≦%)</td>
<td>1</td>
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</tbody>
</table>

Use: Intermediate for the chemical industry.

SECTION 2 COMPANY IDENTIFICATION

Company: Jiangsu Liside New Material Co., Ltd.

Address: Houbao, Shengao Town, Jiangyan District, Taizhou City, Jiangsu Province, China

Tel: +86-523-88660000  Fax: +86-523-88668955

Http: www.liside.com

Emergency Phone Numbers:

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT:
+86-523-88660000

For Product Information:
+86-523-88660000

Chemical Name or Synonym:
Copolymer of vinyl chloride and vinyl isobutyl ether

CAS NO:
25154-85-2

SECTION 3 HAZARD IDENTIFICATION

No particular hazards known.

SECTION 4 FIRST-AID MEASURES

General advice: Remove contaminated clothing

If inhaled: If difficulties cause after dust has been inhaled remove to fresh air seek medical attention.

On skin contact: Wash thoroughly with soap and water.

On contact with eyes: Wash affected eyes for at least 15minutes under running water with eyelids held open.

On ingestion: Rinse mouth and then dink plenty of water.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5 FIRE-FIGHTING MEASURES
Suitable extinguishing media:
Water spray, dry extinguishing media, foam.

Unsuitable extinguishing media for safety reasons:
Carbon dioxide

Additional information:
Avoid whirling up the material/product because of the danger of dust explosion.

Specific hazards:
Hydrogen chloride, harmful vapours.
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions.
Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions:
Avoid dust formation. Use personal protective clothing.

Environmental precautions:
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Contain with dust binding materal and dispose of.
Avoid raising dust.

SECTION 7 HANDLING AND STORAGE

Handling:
Breathing must be protected when large quantities are decanted without local exhaust ventilation.
Protection against fire and explosion:
Avoid dust formation. Take precautionary measures against static discharges.

Storage:
Further information on storage conditions: Keep container tightly closed and dry: store in a cool place.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters
The relevant MAK values should be noted (Germany).

Vinyl chloride: CAS No: 75-01-4
          EINECS No: 200-831-0

          EINECS No: 203-678-8

Personal protective equipment:
Respiratory protection:
Suitable respiratory protection for lower concentrations or short-term effect: Particle filter EN 143 Type P2,
medium efficiency (solid and liquid particles of harmful substances).

Hand protection:
Chemical resistant protective gloves(EN 374)
e.g. nitrile rubber (0.4mm), chloroprene rubber (0.5mm), polyvinyl chloride (0.7mm) and other
Manufacture’s directions for use should be observed because of great diversity of types

Eye protection:
Safety glasses with side-shields (frame goggles) (EN166)

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES
From: powder, fine particles
Color: colourless
Smell: tasteless
Softening range: 55-57°C
Density: approx. 1.24 g/cm³
Bulk density: approx. 370 kg/cm³ (20°C)
Solubility: sparingly soluble

SECTION 10 STABILITY AND REACTIVITY
Conditions to avoid;
Avoid humidity.
Hazardous reactions:
Dust explosion hazard.
Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11 TOXICOLOGICAL INFORMATION
Additional information:
Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

SECTION 12 ECOLOGICAL INFORMATION
Persistence and degradability
Assessment:
The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

Additional information
Add. remarks environment, fate & pathway:
Due to consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

Other ecosystem advice:
Do not release untreated into natural waters

SECTION 13 DISPOAL CONSIDERATIONS
Must be dumped or incinerated in accordance with local regulations.
Contact the manufacturer directly in case of was to disposal problems with the assigned waste codes.
Contaminated packaging:
Uncontaminated packs can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14 TRANSPORT INFORMATION
Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVEE ICAO/IATA)

SECTION 15 REGULATORY INFORMATION
Regulations of the European union (Labeling)/National legislation/Regulations
The product does not require a hazard warning label in accordance with EC Directives.

SECTION 16 OTHER INFORMATION
This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for product that are the Object of special standards and regulations.

Vertical lines in the left hand margin indicate an amendment from the previous version.
The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

VALID DATE FROM 31/12/2014