Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lacper® 4701
Additional Name: Acrylic Copolymer Emulsion
Company Name: Wanhua Chemical Group Co., LTD
Address: No.17, Tianshan Rd, YEDA, Yantai, China
Telephone: 0086-535-3388160 Fax: 0086-535-338222-1150

Section 2 - HAZARDS IDENTIFICATION

GHS Classification of the substance or mixture
This product is not hazardous per the Globally Harmonized System of Classification and Labelling (GHS).

Label elements:
Pictogram:
Signal words:
Risk description: No known significant effects or critical hazards.
Precautionary statements:
Preventive measures:
Use the necessary personal protective equipment (gloves, goggles, protective clothing etc.). Clean the exposed parts of the body in case of skin contact. No eating, drinking or smoking in the workplace. Use only outdoors or in a well-ventilated area.

Accident response:
If inhaled: In case of reactions, seek medical advice.
In case of eye or skin contact: Wash with plenty of water/soap. In case of reactions, consult a physician.
If swallowed: Rinse mouth. Do not induce vomiting. If swallowed seek medical advice immediately.
In case of leakage: Collect leakage.
Suitable extinguishing substances: Carbon dioxide (CO₂), Foam, Extinguishing powder, Water spray jet.

Storage:
Please store the product in sealed original packaging, cool and dry condition. Storage temperature should be maintained between 5°C and 35°C. The product should be protected from freezing during storage. Immediately seal the package after use.
Disposal:
In order to avoid the damage to human body and environment, do not store food and other items in the used empty packaging without harmless treatment; Recycling, utilization and disposal packaging should be in accordance with the applicable legislation. The disposer should be responsible for the damage and loss caused by improper waste disposal.

Physical and chemical hazards: May cause pollution to water and soil.
Health hazard: No
Environmental hazards: no release of dangerous substances. Do not allow to enter sewage system in case of blockage due to polymer deposition.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>CAS RN</th>
<th>%</th>
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<tbody>
<tr>
<td>Polyacrylate</td>
<td>N/A</td>
<td>42-44%</td>
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<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>56-58%</td>
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</table>

There is no GHS hazards classification for polyacrylate.

Section 4 - FIRST AID MEASURES

Description of first aid measures
General advice: In case of accident or unwellness, seek medical attention immediately (show directions for use or safety data sheet if possible).
If inhaled: No special measures are necessary. In case of irritation, seek medical advice.
In case of skin contact: Wash with plenty of water/soap. In case of skin reactions, consult a physician.
In case of eye contact: Rinse cautiously with water for at least 20 minutes. Tilt the head in order to avoid contact with the other eye. Contact an ophthalmologist.
If swallowed: If uncertain or if experiencing adverse symptoms, seek medical advice immediately.

Most important symptoms and effects, both acute and delayed
Symptoms: May cause irritation by skin contact.

Indication of any immediate medical attention and special treatment needed
Immediate medical attention: First Aid, decontamination, treatment of symptoms.

Section 5 - FIRE FIGHTING MEASURES

Hazards characteristics: Burning conditions will release toxic smoke

Hazards during fire-fighting: Carbon monoxide, Carbon dioxide, Oxynitrile

Suitable extinguishing media: Water fog, foam, dry extinguishing media

Protective equipment for fire-fighters: Fire-fighter must wear the filtration mask, wear whole body fire protective clothing, fire in the wind. Transfer the vessels to an open area as far as possible. In case a fire occurs in a surrounding environment, sprinkling water into the surrounding equipment to make it cool.
Section 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Personal precautions: Use personal protection equipment. Keep unauthorized persons away.

Environmental precautions
Do not empty into drains.

Methods and material for containment and cleanup
Methods for cleanup: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as described in the section on waste disposal.

Reference to other sections
Reference to other sections: Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

Section 7 - HANDLING AND STORAGE

Control parameters
The product does not contain any relevant quantities of materials with critical values that have to be mentioned at the workplace.

Handling
Necessary precautions required in the handling of volatile solvents must be taken. Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product. Protection against explosions is required.

Storage
The product will keep stable for 12 months when stored in its sealed original packaging at temperatures between 5°C and 35°C. Storage at temperatures below 5°C will make the product frozen and cause irreversible damage. The product should therefore be protected from freezing during storage. Temperatures higher than 35°C should be avoided in order to prevent the evaporation of water, which will result in the formation of a non-redispersible polymer film.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls

Respiratory protection: Respiratory equipment required in an insufficiently ventilated working areas and during spraying.

Hand protection: Suitable materials for safety gloves. Nitrile rubber – NBR: thickness >=0.35mm; breakthrough time >=480min. Recommendation: contaminated gloves should be disposed of.

Eye protection: Wear eye/face protection.

Body protection: Wear suitable protective clothing.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| Status       | liquid |
Appearance | Translucent to milky white
---|---
Water Solubility | Misible at 20 °C
Odour | Slight inherent odour
Flammability | Not applicable
Vapour pressure (kPa) | Not established
pH | 7.0-9.0
Partition coefficient n-octanol / water (logkow) | Not established
Flash point (°C) | Not applicable
Density (g/cm³) | ca. 1.04 at 20 °C
Upper Explosive Limit [% (v/v)] | Not applicable
Lower Explosive Limit [% (v/v)] | Not applicable
Boiling point (°C) | Not established
Explosive properties | Not applicable
Auto-ignition temperature (°C) | Not applicable
Decomposition temperature | Not established
Oxidising properties | Not applicable
Molecular weight (g/mol) | Not established
Vapour density (Air = 1) | Not established
Relative density (Water = 1) | ca. 1.04
Viscosity, dynamic | 10-1000 mPa.s at 25 °C
VOC | Not established

9.2 Other information
The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION
10.1 Stability
No decomposition when used and stored properly.

10.2 Materials to avoid
Acids, bases, and electrolytic solutions.

10.3 Conditions to avoid
Strong light, high temperature and low temperature.

10.4 Hazardous decomposition products
On drying of the coating release of neutralizing agent.

Section 11 - TOXICOLOGICAL INFORMATION
Toxicological studies on the product are not yet available.

Section 12 - ECOLOGICAL INFORMATION
Ecotoxicological studies of the product are not available. Do not allow to product to escape into waterways, wastewater or soil.
Section 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal considerations: Do not dispose of with household waste. Do not allow to enter drains. Dispose of waste according to applicable legislation.

Uncleaned empty packaging: Handle contaminated packages in the same way as the substance itself.

Suitable cleaning agents: Water (with cleaning agent). Retain contaminated washing water and dispose it.

Section 14 - TRANSPORTATION INFORMATION

ADR/RID

<table>
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<tr>
<th>14.1 UN number</th>
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<tr>
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<tr>
<td>14.3 Transport hazard class</td>
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ADN

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IATA

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IMDG

| 14.1 UN number | Not dangerous goods |
14.2 UN proper shipping name  Not dangerous goods
14.3 Transport hazard class  Not dangerous goods
14.4 Packing group  Not dangerous goods
14.5 Environment hazards  Not dangerous goods

14.6 Special precautions for user

See section 6-8.

Additional information : Not dangerous cargo.

Avoid heat above 35°C or lower than 5°C, keep away from food, acids and bases. According to the latest IATA DGR, this product is not dangerous.

Section 15 - REGULATORY INFORMATION

15.1 The product is classified and labeled according to Regulation (EC) No. 1272/2008 (GHS/CLP).
15.2 Safety, health and environmental regulation/legislation specific for the substance or mixture Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances. Not applicable
15.3 All ingredients are listed in IECSC, or exempted, or confirmed by suppliers.

Section 16 - OTHER INFORMATION

Legend

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<tbody>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
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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 guideline 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.