



Safety Data sheet (SDS)

Revision Date: 2017/07/27
Name: Lacper[®] 4211

NO.PU_4211
Version: 2

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lacper[®] 4211

Additional Name:

Company Name: Wanhua Chemical Group Co., LTD

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NA 800-424-9300、+1-703-527-3887

Recommended uses:

Waterborne coatings for wood

Section 2 - HAZARDS IDENTIFICATION

2.1 GHS Classification of the substance or mixture

No classification according to the Regulation (EC) No. 1272/2008.

2.2 Label elements

No labeling necessary according to Directive (EC) No. 1272/2008

Pictogram

No information available

Warning:

No information available

Hazard statements:

No information available

Precautionary statements:

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302 + P305 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

2.3 Other hazards

No information availab

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

NAME	CAS RN	%
Polyurethane	N/A	39-41%
Water	7732-18-5	59-61%

Section 4 - FIRST AID MEASURES

Description of first aid measures

General advice: In case of accident or unwellness, seek medical advice 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: In all cases of doubt, or when symptoms persist, 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

Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂), Foam, Extinguishing powder, Water spray jet

In case of major fire and large quantities: Water spray jet, alcohol resistant foam

Co-ordinate fire-fighting measures to the fire surroundings.

Advice for firefighters

Firefighters have to wear self-contained breathing apparatus.

Hazards during fire-fighting

Carbon monoxide, Carbon dioxide, Oxynitride.

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 cleaning up

Methods for cleaning up: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed 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

The precautions required in the handling of solvents must be taken. Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product. Explosion protection required.

Storage

The product will keep stable for six 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.

Remarks

The values for density and viscosity are guide values. Please see the product information sheet.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls

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

Hand protection: Suitable materials for safety gloves; EN 374:
Butyl rubber – IIR: thickness ≥ 0.5 mm; breakthrough time ≥ 480 min.

Recommendation: contaminated gloves should be disposed of.

Conditionally suitable materials for protective gloves; EN 374:

Nitrile rubber – NBR (≥ 0.35 mm)

Breakthrough time not tested; dispose of immediately after contamination.

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

Appearance	liquid
Colour	Translucent to milky white
Odour	Slight inherent odour
Odour Threshold	Not established
pH	7.0-9.0

Pour point	Not established
Initial boiling point	approx. 100 °C(water)
Flash point	Not established
Evaporation rate	Not established
Flammability(solid, gas)	Not applicable
Burning number	Not applicable
Upper/lower flammability or explosive limits	Not established
Vapour pressure	Not established
Vapour density	Not established
Density	ca. 1.04 g/cm ³ at 20 °C
Miscibility with water	Miscible at 20 °C
Surface tension	Not established
Partition coefficient(n-octanol/water)	Not established
Auto-ignition temperature	Not applicable
Ignition temperature	Not applicable
Decomposition temperature	Not established
Viscosity, dynamic	10 – 200 mPa.s at 25 °C
Explosive properties	Not established
Dust explosion class	Not applicable
Oxidising properties	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 properly.

10.2 Materials to avoid

Acids, bases and electrolyte solution.

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 is not yet available.

Section 12 - ECOLOGICAL INFORMATION

Ecological studies on the product is not yet available.

DO not allow 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

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

ADN

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

IATA

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

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, stay away from food, acids and bases. According to 57th of IATA DGR 2016, 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

Section 16 - OTHER INFORMATION

Legend

TLV	Threshold Limit Value
TWA	Time Weighted Average

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.