

Product Name: single component polyurethane coating (solvent – based)

Manufacturer: Jiangmen Choisum Environmental Materials Co., Ltd.

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1. Overview of Hazards

Product Name: **single component polyurethane coating (solvent- based)**

Application: waterproofing layer for industrial or interior use

GHS Hazard Category: hazardous mixture

Label Elements

Symbol/Pictogram:

GHS02, GHS07, GHS08



Signal Word: Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation
H373	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Measures: Preventions

P261: Avoid breathing vapors/spray.

P271: Use only outdoors or in a well-ventilated area.

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

P284: Wear respiratory protection.

P273: Avoid release to the environment.

P272: Contaminated work clothing must not be taken out of the work area.

Precautionary Measures: Response

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



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P342+P311 IF experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 IF skin irritation or rash occurs: Get medical advice/attention.

P337+P313 IF eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Precautionary Measures: Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Precautionary Measures: Disposal

P501: Dispose of contents/container in accordance with local regulations.

2. Composition/Information on Ingredients

Ingredient	CAS NO.	Content
Polyurethane prepolymer (NCO-terminated)	28182-81-2	50-60%
Aromatics solvent oil	64742-95-6	8-15%
CaCO ₃	13397-26-7	30-50%
auxiliary	N/A	1-3%

3. Hazardous Analysis

Physical and Chemical Hazards: Flammable liquid and vapor, forms explosive mixtures with air. Contact with ignition sources, heat or sparks may cause fire or explosion. Reacts vigorously with strong oxidizers. Electrostatic charge hazard - may accumulate during high-velocity flow.

Health Hazards

Acute Effects: Inhalation of high vapor concentrations may cause: dizziness, headache, nausea, vomiting, mucous membrane irritation, mild consciousness impairment

Severe cases: respiratory/circulatory failure, sudden death, ventricular fibrillation

Chronic Effects (Prolonged Exposure):

CNS effects: Fatigue, insomnia, memory impairment

Hematological effects: Thrombocytopenia, aplastic anemia (severe cases)

Dermatological effects: Defatting dermatitis, dryness, cracking

Environmental Hazards: Toxic to aquatic life. Long-lasting environmental effects

4.1 First Aid Measures

Eye Contact rinse immediately with plenty of water also under the eyelids for at least 10 minutes. Remove contact lenses. Get medical attention.

Skin Contact wash off immediately with plenty of water for at least 10 minutes. Wash off with soap and water. Immediately remove contaminated clothing and any extraneous chemical without delay.

Ingestion: wash out mouth with water. If victim has swallowed material and is still conscious give small amounts of water to drink. Stop if person feels sick. Do not induce vomiting unless directed to do so by medical personnel. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed.

Potential acute health effects

Eye contact Causes serious eye irritation

Inhalation No known significant effects or critical hazards

Skin contact Causes skin irritation. May cause an allergic skin reaction

Ingestion Irritating to mouth, throat and stomach.

Over exposure signs/symptoms

Eye contact Adverse symptoms may include the following:

Pain or irritation

Watering

Redness

Inhalation No known significant effects or critical hazards

Skin contact Adverse symptoms may include the following:

Irritation

Redness

Ingestion No specific data

4.3 Indication of any immediate medical attention and special treatment needed

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No specific treatment

5. Firefighting measures

5.1 Extinguishing media Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire. Unsuitable extinguishing media None known

5.2 Special hazards arising from the substance Hazards from the substance or mixture Incomplete combustion may form carbon dioxide ,carbon monoxide and halogenated compounds.

5.3 Advice for fire-fighters Special protective actions for fire fighters Promptly isolate the scene by removing all persons from the vicinity of the fire.

Special protective equipment for fire fighters Fire fighters should wear appropriate protective equipment.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures Wear suitable protective clothing, gloves and eye/face protection. Use self- contained breathing apparatus and chemically protective clothing.

6.2 Environmental precautions Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

6.3 Methods and material for containment Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as and cleaning up for small spillage

7. Handling and Storage

7.1 Precautions for safe handling Protective measures Wear appropriate personal protective equipment. Avoid contact with eyes, skin or clothing. Do not ingest. Keep containers closed when not in use. Advice on general occupational hygiene Do not eat, drink or smoke when handling this product. Wash hands after handling.

7.2 Conditions for safe storage, including Keep containers tightly closed in a dry, cool and well ventilated areas any incompatibilities. Do not store in unlabeled containers.

8. Exposure limits and personal protection

8.1 Control parameters

Occupational exposure limits No exposure limit value known

8.2 Exposure controls

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion proof ventilation adequate to ensure concentrations are kept below explosion limits.

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Personal protective equipment

Hand protection Chemically resistant, impervious gloves should be worn at all times when handling.

Butyl rubber, Nitrile rubber, neoprene gloves, impervious gloves, latex or vinyl disposable gloves.

Eye/face protection Protective eye glasses or goggles must be worn.

Skin and body protection Standard issue work clothes. Long sleeve shirts, trousers or overalls must be worn.

Environmental exposure controls Construct a dike to prevent spreading.

9. Physical and Chemical Properties

Appearance	VISCOUS FLUID
Odor	Light aromatic hydrocarbon odor
Odor threshold	Not determined
pH value	Not applicable
Melting Point / Freezing Point	-20°C
Boiling Point / Boiling Range	Not applicable
Flash point	> 50°C
Flammability	Not applicable
Explosive limits	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Relative density	1.3-1.5 (g/cm ³)
Water-soluble	Not applicable
Distribution coefficient	Not determined
Autoignition Temperature	Not determined

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Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	5.0 - 20.0 Pa.s
Explosive	Non-explosive
Oxidizing	Not determined

10. Stability and Reactivity

10.1 Reactivity Stable under normal conditions

10.2 Chemical stability This product is stable

10.3 Possibility of hazardous reactions: Strong oxidizer

10.4 Conditions to avoid No specific data

10.5 Incompatible materials No specific data

10.6 Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. Toxicological Information

Aquatic toxicity No data is available on the products itself

Xylene Acute LC3523 50mg/kg Rar

12. Ecological Information

12.1 Toxicity Aquatic toxicity No data is available on the products itself

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil No data is available

13. Disposal considerations

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13.1 Waste treatment methods

Product Waste to be treated as controlled waste. Dispose to licensed waste disposal site. In accordance with local waste disposal authority.

Packaging Keep container labelled until cleaned and then remove or deface labels. Drain container thoroughly and rinse well with water. Treat rinsings as for product disposal. Empty packaging should be removed by a licensed waste contractor.

14. Transportation information

14.1 UN Number

14.2 UN Proper shipping name

14.3 Transport Hazard Class

14.4 Packaging Group

Land Transport ADR / ADN

14.1 UN Number 1263

14.2 UN Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S

14.3 Transport Hazard Class 3.2

14.4 Packaging Group III

Air Transport ICAO / IATA

14.1 UN Number 1263

14.2 UN Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S.

14.3 Transport Hazard Class 3.2

14.4 Packaging Group III

Maritime Transport IMO / IMDG

14.1 UN Number 1263

14.2 UN Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S.

14.3 Transport Hazard Class 3.2

14.4 Packaging Group III

14.5 Environmental hazards Environmentally hazardous and/or marine pollutant: YES



Material Safety Data Sheet (MSDS)

15. Regulatory information

15.1 Safety, health and environment regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex X1V – List of substances to authorization.

Substances of very high concern

Carcinogen: Not listed

Mutagen: Not listed

Toxic to reproduction: Not listed

PBT: Not listed

VPvB: Not listed

16. Flash Point

Greater than 50 degrees Celsius

17. Boiling Point

Not available

18. Other information

Revision notes

Issue date: January 10, 2022

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19. Further Information

For more health and safety information, please contact the Health and Safety Officer. The details provided above are based on our current understanding; however, these terms do not guarantee that the properties of each product will remain consistent and should not be treated as binding contractual terms. The terms outlined here are not exhaustive and are meant to serve as general guidance only.

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