C1330 Polyaspartic Resin

1. Identification

Product Name: C1330 Polyaspartic Resin

Material Number: C1330

Chemical Family: Aspartic Ester / Polyaspartic Resin

Recommended Use: Raw material for waterproofing, anti-corrosion coatings, flooring coatings, blade coatings, adhesives, automotive repair materials, elastomeric coating systems, and industrial coatings.

Product Description: Solvent-free, low-viscosity aliphatic polyaspartic ester resin containing secondary amino groups. It has moderate reactivity and may extend the application time of hand-applied polyurea systems.

Restrictions on Use: Not recommended for DIY / non-industrial applications.

Supplier: Junaimei (Shandong) New Materials Co., Ltd.

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Information Email: info@junaimei.cn; Website: www.junaimei.cn

2. Hazards Identification

GHS Classification: Skin sensitisation, Category 1.

GHS Label Elements: Exclamation mark (GHS07).

Signal Word: Warning.

Hazard Statement: May cause an allergic skin reaction.

Precautionary Statements - Prevention: Wear protective gloves. Avoid breathing mist, vapors or spray. Contaminated work clothing must not be allowed out of the workplace.

Precautionary Statements - Response: If on skin, wash with plenty of soap and water. If skin irritation or rash occurs, get medical attention. Take off contaminated clothing and wash it before reuse.

Precautionary Statements - Disposal: Dispose of contents and container in accordance with applicable national, local, and site environmental control regulations.

3. Composition/Information on Ingredients

Main component: Aspartic Ester / Polyaspartic Resin.

Hazardous components are treated as aspartic ester resin components consistent with the same product family. Specific chemical identity and/or exact percentage may be withheld as a trade secret.

4. First Aid Measures

Most Important Symptoms/Effects: May cause allergic skin reaction with reddening, itching, swelling, and rash. May cause skin, eye, and respiratory tract irritation.

Eye Contact: Flush eyes with plenty of lukewarm water. Separate eyelids to ensure complete irrigation. Get medical attention if irritation develops or persists.

Skin Contact: Wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops or persists.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if symptoms persist.

Ingestion: Do not induce vomiting unless directed by medical personnel. Rinse mouth and call a physician immediately. Never give anything by mouth to an unconscious person.

5. Firefighting Measures

Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide, water spray, or other media suitable for surrounding fire.

Unsuitable Extinguishing Media: No data available.

Fire Fighting Procedure: Firefighters should wear self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers.

Hazardous Decomposition Products: Fire and thermal decomposition may produce carbon oxides, nitrogen oxides (NOx), amines, ammonia, and other irritating or toxic fumes.

Unusual Fire/Explosion Hazards: Product is combustible. Toxic and irritating gases/fumes may be released during burning or thermal decomposition.

6. Accidental Release Measures

Evacuate personnel and keep unnecessary people out of the spill area. Cleanup personnel must use appropriate PPE. Cover spill with inert material such as dry sand or earth and collect for proper disposal. Prevent entry into drains and waterways. Ventilate area.

7. Handling and Storage

Avoid contact with skin, clothing, and eyes. Use only with adequate ventilation and personal protection. Wash thoroughly after handling. Keep container closed when not in use. Do not breathe vapors or spray mist.

Store in a cool, dry, well-ventilated place away from ignition sources, heat, moisture, and foreign materials. Do not reseal container if contamination is suspected.

Storage Temperature: Store at low temperature, not above 40 deg C.

Packaging and Shelf Life: 20 kg or 200 kg per drum. In original unopened and undamaged sealed containers under specified conditions, shelf life is one year.

Substances to Avoid: Oxidizing agents, acids, isocyanates.

Coatings prepared with this product should be cured for one week before performance testing.

8. Exposure Controls/Personal Protection

Exposure Limits: No known ACGIH TLV, OSHA PEL, or supplier-recommended occupational exposure limit is available for components not otherwise listed.

Engineering Controls: Use general dilution and local exhaust ventilation as necessary to control airborne vapors, aerosols, and thermal decomposition products.

Respiratory Protection: If vapors form, respiratory protection is recommended. In spray applications or confined/poorly ventilated areas, use an organic vapor/particulate respirator or supplied-air unit.

Hand Protection: Use permeation-resistant gloves such as 4H laminate, butyl rubber, nitrile rubber, or equivalent gloves. Replace gloves if deterioration is observed.

Eye Protection: Wear chemical safety goggles or safety glasses with side shields. Use a full face shield if a splash hazard exists.

Skin Protection: Avoid all skin contact. Wear appropriate protective clothing. Where spray mist or vapor is anticipated, permeation-resistant clothing is recommended.

Additional Protective Measures: Employees should wash hands and face before eating, drinking, or using tobacco products. Emergency showers and eye wash stations should be available.

9. Physical and Chemical Properties

Physical State / Appearance: Colorless to light yellow liquid.

Odor: Mild / inherent odor.

Amine Value: 160 - 180.

Color Value (APHA): Max. 250.

NH Equivalent: 334 g/mol.

Equivalent OH Content: 5.00 - 5.10%.

Relative Density: 1.06 at 25 deg C.

Dynamic Viscosity: 200 - 400 mPa.s at 25 deg C.

Solids Content: 97 +/- 2%.

Flash Point: 94 deg C.

Water Solubility: Insoluble / no data available.

Other properties not listed: No data available or not established.

10. Stability and Reactivity

Hazardous Reactions: Hazardous polymerisation does not occur under recommended conditions.

Stability: Stable under recommended storage and handling conditions.

Materials to Avoid: Oxidizing agents, acids, isocyanates.

Conditions to Avoid: Avoid extreme heat, ignition sources, moisture, and contamination.

Hazardous Decomposition Products: Fire and thermal decomposition may produce carbon oxides, nitrogen oxides, amines, ammonia, and other irritating or toxic fumes.

11. Toxicological Information

Likely Routes of Exposure: Skin contact, eye contact, inhalation, ingestion.

Health Effects and Symptoms: May cause allergic skin reaction. May cause skin, eye, and respiratory tract irritation.

Acute Oral Toxicity Estimate: > 5000 mg/kg, based on same-family reference data/calculation method.

Aspartic ester same-family data indicate low acute toxicity, possible slight irritation, and positive skin sensitisation potential.

Carcinogenicity: No carcinogenic substances as defined by IARC, NTP and/or OSHA are expected based on available same-family information.

12. Ecological Information

Product-specific ecological data are not available. Avoid release to the environment, drains, and waterways.

Same-family aspartic ester information indicates the material may not be readily biodegradable. Use appropriate containment and disposal practices.

13. Disposal Considerations

Waste disposal should comply with applicable national, local, and site environmental control regulations.

Empty containers may retain product residue and can be dangerous. Do not reuse empty containers without proper cleaning. Do not heat or cut containers with electric or gas torch.

14. Transportation Information

C1330 TDS indicates the product is combustible. During transport and storage, keep away from ignition sources and heat, and prevent packaging damage.

15. Regulatory Information

Chemical inventory and regional regulatory status should be confirmed by the supplier or importer/user according to applicable regulations.

SARA 311/312 hazard categories should be assessed according to Section 2 classification.

Users are responsible for determining regulatory applicability for their location, formulation, and use conditions.

16. Other Information

Two-component systems containing reactive aspartic esters in combination with isocyanate hardeners require the protective measures referenced in this SDS. These systems are recommended only for industrial or trade applications and are not suitable for DIY applications.

Contact: Technical / Product Safety Department.

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