

C1220 POLYASPARTIC RESIN

1. Identification

Product Name: C1220 POLYASPARTIC RESIN

Material Number: C1220

Chemical Family: Aspartic Ester / Polyaspartic Resin

Use: Raw material for coatings, inks, adhesives, sealants, elastomers, waterproofing, anti-corrosion coatings, flooring coatings, blade coatings, and automotive repair materials in industrial applications

Restrictions on use: Do-It-Yourself Applications

2. Hazards Identification

This product is not classified as hazardous according to OSHA's Hazard Communication Standard 2024 (29 CFR 1910.1200).

3. Composition/Information on Ingredients

Hazardous Components

There are no hazardous components above the relevant concentration limits according to OSHA's Hazard Communication Standard 2024 (29 CFR 1910.1200).

4. First Aid Measures

Most Important Symptom(s)/Effect(s)

Acute: May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling., May cause skin irritation with symptoms of reddening, itching, and swelling., May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops.

Junaimei (Shandong) New Materials Co., Ltd.

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TRANSPORTATION EMERGENCY

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NON-TRANSPORTATION

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Skin Contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if irritation develops.

Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Give two glasses of water for dilution. Call a physician immediately. Never give anything by mouth to an unconscious person.

5. Firefighting Measures

Suitable Extinguishing Media: All extinguishing media are suitable.

Unsuitable Extinguishing Media No Data Available

Fire Fighting Procedure

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic

and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

Hazardous Decomposition Products

By Fire and Thermal Decomposition: Carbon oxides, Nitrogen oxides (NO_x), Amines, other aliphatic fragments which have not been determined, Ammonia gas may be liberated at high temperatures.

Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

6. Accidental Release Measures

Spill and Leak Procedures

Evacuate and keep unnecessary people out of spill area. Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Prevent from entering open drains and waterways. Ventilate area to remove vapors or dust.

7. Handling and Storage

Handling/Storage Precautions

Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Do not breathe vapours or spray mist. Store in a cool, dry, well-ventilated place away from ignition sources, heat, moisture, and foreign materials. Material is hygroscopic and may absorb small amounts of atmospheric moisture. Do not reseal container if contamination is suspected.

Storage Temperature

Recommended: 10 - 25 °C (50 - 77 °F) based on reference SDS

Maximum: 40 °C (104 °F) based on C1220 TDS

Storage Conditions

Store separate from food products.

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Substances to Avoid

Oxidizing agents, Acids, Isocyanates

8. Exposure Controls/Personal Protection

The recommendations in this section should not be a substitute for a personal protective equipment (PPE) assessment performed by the employer as required by 29 CFR 1910 Subpart I.

Exposure Limits

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

Industrial Hygiene/Ventilation Measures

General dilution and local exhaust ventilation as necessary to control airborne vapors, aerosols (e.g., dusts, mists) and thermal decomposition products. Heating may result in generation of airborne vapors and/or aerosols.

Respiratory Protection

If vapors form, respiratory protection is recommended., The use of a positive pressure supplied air respirator is recommended if the airborne concentration is unknown or if spraying is performed in a confined space or area with limited ventilation., In spray applications, an organic vapor/particulate respirator or air supplied unit is necessary.

Hand Protection

Ensure gloves remain in good condition during use and replace if any deterioration is observed. Permeation resistant gloves., Viton gloves., 4H laminate gloves., Butyl rubber gloves., Nitrile rubber gloves.

Eye Protection

Chemical safety goggles or safety glasses with side-shields., Chemical safety goggles in combination with a full face shield if a splash hazard exists.

Skin Protection

Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact., Where spray mist/vapor is anticipated, permeation resistant clothing is recommended.

Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

9. Physical and Chemical Properties

Physical state: liquid

Color: Colorless to light yellow

Odor: slight inherent odour

Amine Value: 240 - 248

Color Value (APHA): max. 250

NH Equivalent: 230 g/mol

Equivalent OH Content: 7.4%

Solid Content: 97 ± 2%

Odor Threshold: No Data Available

pH: No Data Available

Melting Point: < -50 °C (-58 °F) (EG A1)

Boiling Point: No Data Available

Flash Point: 94 °C (C1220 TDS); ca. 105 °C (221 °F) @ 1,013 hPa (DIN EN 22719, reference data)

Evaporation Rate: No Data Available

Lower Explosion Limit: Not Established

Upper Explosion Limit: Not Established

Vapor Pressure: No Data Available

Vapor Density: No Data Available

Relative Density: 1.05 @ 25 °C (C1220 TDS)

Density: ca. 1.07 g/cm³ @ 20 °C (68 °F) (DIN 51757, reference data)

Relative Vapor Density: No Data Available

Specific Gravity: No Data Available

Solubility in Water: insoluble

Partition Coefficient: n-

octanol/water:

logPow: ca. 3.7 @ 25 °C (77 °F) EG A8

Auto-ignition Temperature: No Data Available

Decomposition Temperature: ca. 115 °C (239 °F)

Unblocking Temperature: No Data Available

Dynamic Viscosity: 60 - 100 mPa.s @ 25 °C (C1220 TDS)

Reference Dynamic Viscosity: ca. 100 mPa.s @ 20 °C (68 °F) (DIN EN ISO 3219/A.3)

Kinematic Viscosity: No Data Available

Bulk Density: not established

Molecular Weight: No Data Available

Hygroscopicity: hygroscopic

Corrosion of Metals: Not corrosive to metals.

Particle characteristics: No Data Available

10. Stability and Reactivity

Hazardous Reactions

Hazardous polymerisation does not occur.

Stability

Stable

Materials to Avoid

Oxidizing agents, Acids, Isocyanates

Conditions to Avoid

Avoid extreme heat.

Hazardous Decomposition Products

By Fire and Thermal Decomposition: Carbon oxides, Nitrogen oxides (NOx), Amines, other aliphatic fragments which have not been determined, Ammonia gas may be liberated at high temperatures .

11. Toxicological Information

Likely Routes of Exposure: Skin Contact

Eye Contact

Inhalation

Ingestion

Health Effects and Symptoms

Acute: May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling., May cause skin irritation with symptoms of reddening, itching, and swelling., May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Chronic: Not expected to cause adverse chronic health effects.

Toxicity Data for: C1220 POLYASPARTIC RESIN

Acute Oral Toxicity

Acute toxicity estimate: > 5,000 mg/kg (Calculation method)

Carcinogenicity:

No carcinogenic substances as defined by IARC, NTP and/or OSHA

12. Ecological Information

13. Disposal Considerations

Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Empty Container Precautions

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Empty containers retain product residue (dust, liquid, vapor and/or gases) and can be dangerous. Do not heat or cut container with electric or gas torch.

14. Transportation Information

Land transport (DOT)

Non-Regulated

Sea transport (IMDG)

Non-Regulated

Air transport (ICAO/IATA)

Non-Regulated

15. Regulatory Information

United States Federal Regulations

US. Toxic Substances Control Act: Listed on the Active Portion of the TSCA Inventory.

SNUR Components

No substances are subject to Section 5 Significant New Use Rule (SNUR) requirements.

Section 6 Risk Management Components:

No substances are subject to Section 6 Risk Management rule requirement.

Section 12b Components:

No substances are subject to TSCA 12(b) export notification requirements.

Section 4 Test Order/Rule Components:

No substances are subject to Section 4 Final Test Orders or Rules.

Consent Order:

No substances are subject to Section 5 Consent Order requirements.

US. EPA CERCLA Hazardous Substances (40 CFR 302.4) Components:

None

SARA Section 311/312 Hazard Categories:

Refer to hazard classification information in Section 2.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:

None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III

Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:

None

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Concentration Components CAS-No.

60 - 100% Aspartic Ester 168253-59-6

1 - 5% Aliphatic Carboxylic Ester 623-91-6

California Proposition 65 List:

None.

CFATS (Chemical Facility Anti-Terrorism Standards) Chemicals

To the best of our knowledge, this product does not contain Appendix A Chemicals of Interest (COI), at or above the Screening Threshold Quantity (STQ), as defined by the Department of Homeland Security Chemical Facility Anti-terrorism Standard (CFATS, 6 CFR Part 27).

Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

16. Other Information

The method of hazard communication for Junaimei (Shandong) New Materials Co., Ltd. is comprised of product labels and safety

The handling of two component systems containing reactive aspartic esters in combination with isocyanate hardeners requires appropriate protective measures referred to in this SDS. These systems are therefore recommended only for use in industrial or trade (commercial) applications. They are not suitable for use in Do-It-Yourself applications.

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