Safety Data Sheet

Section 1: Identification

Product Name **Polyaspartic TopCoat Resin – Part B**
Recommended Use: For Industrial Use Only.
Manufacturer: Coatary LLC 6108 W 9790 S West Jordan, UT 84081
Telephone : 801.503.4036
Emergency Telephone Number: 800-424-9300

Section 2: Hazard Identification

Emergency Overview: Warning. May cause sensitization by skin contact (H317): Category 1. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment (H412).

GHS Hazards Pictograms:

Signal Word(s): Warning.

Hazard Statement(s):

H317 - May cause an allergic skin reaction.

Precautionary Statement(s):
Prevention:

P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 - Wash skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P273 - Avoid release to the environment.

Response:

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.
P363 - Wash contaminated clothing before reuse.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/ attention.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 - Immediately call a POISON CENTER or doctor/ physician.
P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Storage:

P403 + P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.

Disposal:

P501 - Dispose of contents/container to an approved waste disposal plant in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None known.

Other Information:

May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Inhalation: No information was found regarding effects from inhalation exposure. May cause respiratory tract irritation. Because of its low volatility, exposure to vapors is unlikely. High concentrations of mists may irritate the nose and throat and cause nausea, headache, dizziness, weakness and fatigue. May cause lung sensitization, an allergic reaction, which becomes evident on re-exposure to this material.

Skin: Causes skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material.

Eye: Can cause eye irritation. Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing and seek medical attention if material comes in contact with eyes.

Ingestion: If swallowed, call a POISON CENTER or doctor/physician if you feel unwell.

Section 3: Composition/ Information on Ingredients

Substances

Chemical Name	Identifiers	% (by weight)	Comments
Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester	CAS 136210-30-5	30-50	Combustible liquid May cause an allergic skin reaction Harmful to aquatic life with long-lasting effects
Aspartic Acid, N, N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-,1,1'4,4"-tetraethyl ester	CAS 13621-32-7	30-50	Combustible liquid May cause an allergic skin reaction Harmful to aquatic life with long-lasting effects

Other Information: This material is classified as hazardous under OSHA regulations.

Section 4: First-Aid Measures

Inhalation: Move victims into fresh air. If breathing is labored, administer oxygen. Consult a doctor immediately.
Skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.
Eye contact: Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist.
Ingestion: Rinse out mouth, spit out liquid. Do not induce vomiting and seek medical advice immediately.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, foam, CO2, dry powder.
Unsuitable Extinguishing Media: High volume water jet.
Unusual Fire and Explosion Hazards: Firefighters should wear NFPA approved self-contained breathing apparatus and full protective clothing. Avoid contact with product. Decontaminate equipment and protective clothing prior to re-use. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint. Autoignition may occur with cotton waste or similar combustible materials.
Hazardous Decomposition Products: carbon dioxide, carbon monoxide, oxides of nitrogen, and unidentified compounds.
Advice to Fire Fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Vapors or mist may be a fire and explosion hazard when exposed to high temperature or ignition. Closed container may forcibly rupture under extreme heat. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Toxic gases/fumes may be given off during burning or thermal decomposition.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate personal protective equipment. Evacuate surrounding areas and isolate the area. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Implement site emergency response plan.

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform authorities if the product has caused environmental pollution (sewers, drains, waterways or soil).

Containment/Clean-up Measures: Cleanup personnel must use appropriate personal protective equipment. Evacuate and keep unnecessary personnel out of spill area. Remove all sources of ignition, including flames, heat, and sparks. Stop leak if without risk. Move containers from spill area. Dike or dam spilled material with non-combustible, absorbent material (e.g., sand, earth, vermiculite or diatomaceous earth) and control further spillage, where possible. Make certain the absorbent material soaks up all liquids.

Section 7: Handling and Storage

Handling: Do not breathe vapors or spray mist. Avoid contact with eyes or skin. Avoid contact with clothing. Use only with adequate ventilation and personal protection. Remove contaminated personal protective equipment (PPE), then wash hands and face thoroughly after handling and before eating and drinking. Keep container closed when not in use. Empty containers retain product residue and can be hazardous. Do not get in eyes, on skin or on clothing. Do not ingest. Keep away from heat, sparks, flames and other sources of ignition. Avoid release to the environment. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination with moisture is suspected. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

Storage: Keep away from food products during use and storage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled, unapproved or reactive containers. Use appropriate containment to avoid environmental contamination. Personnel education and training in the safe use and handling of this product are required under OSHA Hazard Communication Standard 29 CFR 1910.1200.

Incompatible Materials or Ignition Sources: Stable under recommended storage conditions. Avoid water, air humidity, oxidizing agents, cotton waste or other combustible materials. Keep away from sources of ignition - No smoking. This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks. The user must be sure to dissipate static charge by careful bonding and grounding of all equipment, and personnel involved in fluid transfer should conduct continuity checks to prove effectiveness of bonding and grounding. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines; flame arrestors in vent lines. Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Section 8: Exposure Controls/ Personal Protection

Special Note for Exposure Control: Consult local authorities for further acceptable exposure limits.

Exposure Limits/ Guidelines

Chemical Name	Result	ACGIH/OSHA
Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester CAS 136210-30-5	STELs	No data available.
	TWAs	No data available.
	PEL	No data available.
Aspartic Acid, N, N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-,1,1'4,4"-tetraethyl ester CAS 136210-32-7	STELs	No data available.
	TWAs	No data available.
	PEL	No data available.

Engineering Measures/Controls: General dilution and local exhaust as necessary to control airborne vapors, mists, dusts, and thermal decomposition products below appropriate airborne concentration standards and guidelines. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the build-up of explosive atmospheres and to prevent off-gases from entering the work place.

Environmental Exposure Controls: Avoid release to the environment. Construct a dike to prevent spreading of spills. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating and drinking, smoking or using the lavatory and at the end of the working period. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Respiratory: In case of inadequate ventilation, wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use positive pressure supplied air respirator when airborne concentrations are not known, when airborne levels are 10 times the appropriate TLV, and when spraying is performed or product is applied by aerosol in a confined space or area with limited ventilation. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Contact health and safety professional or manufacturer for specific information.

Eye/Face: Use chemical resistant goggles. Chemical safety goggles in combination with a full face shield must be used if a splash hazard exists.

Hands: Use permeation resistant gloves such as butyl rubber, nitrile rubber, or neoprene.

Skin/Body: Wear rubber or plastic apron and permeation resistant clothing, chemical-resistant gloves, and long-sleeved shirts, and pants. Remove and wash contaminated clothing before re-use.

General Industrial Hygiene Considerations: Keep away from food and drink. Wash hands and face after use. Educate and train workers in the safe use and handling of this product. Emergency showers and eye wash stations should be available. Follow all label instructions.

Key to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
MSHA = Mine Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day 40hr/week exposures
STEL = Short Term Exposure Limits are based on 15 minute exposures

Section 9: Physical and Chemical Properties

Information on Physical and Chemical Properties

Physical Form	Liquid.	**Appearance/Description**	Clear
Color	Colorless to pale yellow.	**Odor**	Amine like
Boiling Point	302°C (576°F)	**Bulk Density**	No data available.
Specific Gravity	1.050	**UEL**	No data available.
Water Solubility	Not readily soluble.	**LEL**	No data available.
Flash Point	130°C (266°F) TOC	**NVW**	No data available.

Section 10: Stability and Reactivity

Reactivity
Under normal conditions: stable
Chemical Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: Autoignition may occur with cotton waste or similar combustible materials.
Conditions to Avoid: Air humidity, water
Incompatible Materials: Water, oxidizing agents, cotton waste or other combustible materials.
Hazardous Decomposition Products: Decomposition products in hydrolysis/thermal decomposition isophorone diamine, isobutyraldehyde

Section 11: Toxicological Information

ACUTE TOXICITY

Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester/Aspartic Acid, N, N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-,1,1'4,4"-tetraethyl ester
LD50 Oral Rat >2,000 mg/kg
LC50 Inhalation Rat >4,224 mg/l, 4h
LD50 Dermal Rat >2,000 mg/kg

IMMEDIATE (ACUTE) EFFECTS

Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester/Aspartic Acid, N, N'-[methylenebis(2-methyl-4,1-cyclohexanediyl)]bis-,1,1'4,4"-tetraethyl ester
Skin Corrosion/Irritation (Rabbit, 24h): None
Skin Sensitization (Guinea Pig): Positive
Carcinogenicity: OSHA Not Listed. IARC Not Listed. NTP Not Listed.

Section 12: Ecological Information

For a comparable product to Aspartic Ester:
ACUTE TOXICITY
LD50 Oral Rat >2,000 mg/kg
LC50 Inhalation Rat >4,224 mg/l, 4h
LD50 Dermal Rat >2,000 mg/kg
IMMEDIATE (ACUTE) EFFECTS
Skin Corrosion/Irritation (Rabbit, 24h): None
Skin Sensitization (Guinea Pig, OECD Test Guideline 406): Positive
Carcinogenicity: OSHA Not Listed. IARC Not Listed. NTP Not Listed.
For Aliphatic Carboxylic Ester:
LD50 Oral Rat, female – 1,367 mg/kg
Skin Irritation: Irritating
Skin Sensitization: Positive
Eye Irritation: Negative

Bio accumulative Potential:

Bioaccumulation No data available

Section 13: Disposal Considerations

Waste Treatment Methods: Dispose in accordance with Federal, State, and Local laws and regulations. The generation of waste should be avoided or minimized wherever possible. Empty containers should be taken to an approved waste handling site for recycling or disposal. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty Container Precautions: Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental laws and regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

Section 14: Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(es)	14.4 Packing Group	14.5 Environmental Hazards
DOT	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
IMO/IMDG	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
IATA/ICAO	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.

Special Precautions for User: None Known.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information

State Right to Know				
Component	**CAS**	**MA**	**NJ**	**PA**
Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester	CAS 136210-30-5	CAS 136210-30-5	CAS 136210-30-5	CAS 136210-30-5
Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl) bis-, 1,1',4,4'-tetraethyl ester	CAS 136210-32-7	CAS 136210-32-7	CAS 136210-32-7	CAS 136210-32-7

Inventory				
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**TSCA**
Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester	136210-30-5	**Listed**	**-**	**Listed**
Aspartic Acid, N, N'-(methylenedi-4,1-cyclohexanediyl) bis-, 1,1',4,4'-tetraethyl ester	136210-32-7	**Listed**	**-**	**Listed**

This product is in compliance with the inventory listing of the following countries:

Australia (AICS)	listed/registered
Japan (MITI)	listed/registered
Korea (KECI)	listed/registered
Philippines (PICCS)	listed/registered
China	listed/registered
New Zealand	listed/registered

US Federal Regulations
United States
U.S. – CERCLA/SARA – Hazardous Substances and their Reportable Quantities: None
U.S. – SARA – Section 311/312 Hazard Categories: Acute Health Hazard, Fire Hazard
U.S. – CERCLA/SARA – Section 302 Extremely Hazardous Substances TPQs: None
U.S. – CERCLA/SARA – Section 313 – Emissions Reporting: None
U.S. – CERCLA/SARA – Section 313 – PBT Chemical Listing: None
U.S. 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
U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 372.65) Supplier Notification Required Components: None
U.S. 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 Regulations

United States – California
U.S. – California – Proposition 65 – Carcinogens List: None
U.S. – California – Proposition 65 – Developmental Toxicity: None
U.S. – California – Proposition 65 – Maximum Allowable Dose Levels (MADL): None
U.S. – California – Proposition 65 – No Significant Risk Levels (NSRL): None
U.S. – California – Proposition 65 – Reproductive Toxicity – Female: None
U.S. – California – Proposition 65 – Reproductive Toxicity – Male: None

Based on information provided by Pflaumer 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 08-22-212).

Section 16: Other Information

Last Revision Date:
Preparation Date: 09/28/2024
Disclaimer/ Statement of Liability:

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Coatary LLC. The information in this MSDS relates only to the specific material designated herein. Coatary LLC assumes no legal responsibility for use of or reliance upon the information in this SDS.

Key to Abbreviations
NDA = No data Available