

SAFETY DATA SHEET



Date Prepared 3/14/2011
Date Revised 5/26/2015

POLYASPARTIC PART B

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: POLYASPARTIC CLEAR COAT PART B
PRODUCT FAMILY: ASPARTIC ESTER
PRODUCT USE(S): INDUSTRIAL COATING
RESTRICTIONS ON USE(S): NOT FOR USE IN MEDICAL APPLICATIONS

MANUFACTURER
MIRABEL COATINGS, INC.
11803 N SAGUARO BLVD #14
FOUNTAIN HILLS, AZ 85268
480-837-5333

24 HR. EMERGENCY CONTACT NUMBERS
MIRABEL COATINGS: 480-837-5333

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin sensitisation: Category 1

GHS LABEL ELEMENTS

HAZARD PICTOGRAMS:



SIGNAL WORD: DANGER
HAZARD STATEMENTS: H317: May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS

Prevention:

- P260: Do not breathe dust, mist, gas, vapors or spray.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing must not be allowed out of the workplace.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- IF ON EYES: Mild eye irritant. Vapors slightly uncomfortable.
- IF ON SKIN: Wash with plenty of soap and water. Mildly irritating to the skin. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

IF INHALED: May cause respiratory tract irritation.

IF INGESTED: Ingestion is not a typical route of industrial exposure. Not expected to be harmful if swallowed.

Call a doctor or emergency medical facility (i.e. 911) if you feel unwell.

If skin irritation or rash occurs: Get medical attention.

If experiencing respiratory symptoms: Call a doctor or emergency facility (i.e. 911).

Wash contaminated clothing before reuse.

Storage:

Store locked up.

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

Disposal:

Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components

Weight Percent	Components	CAS No.	Classification
50-100%	Mixture of Reactive Aspartic Esters	Trade Secret	Skin sensitisation Category 1.

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation develops.

SKIN: Flush skin with water while removing contaminated clothing. If irritation occurs, get medical attention. Do not reuse clothing or shoes until cleaned.

INGESTION: 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.

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.

MOST IMPORTANT SYMPTOM(S)/EFFECT(S)

ACUTE: May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash. May cause skin irritation with symptoms of reddening, itching, and swelling., May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling.

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 risk of rupture.

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.

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 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 dry place away from excessive heat. Material is hygroscopic and may absorb small amounts of atmospheric moisture. Do not reseal container if contamination is suspected.

STORAGE PERIOD:

6 Months @ 25°C (77°F) after receipt of material by customer

Min Temperature: 0°C (32°F)

Max Temperature: 40°C (104°F)

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

Country specific exposure limits have not been established or are not applicable.

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.

ENGINEERING CONTROLS:

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.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY

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

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

Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

WORK HYGIENE PRACTICES

Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

COMMENTS

May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
ODOR:	Mild
APPEARANCE:	Light yellow
pH:	No Data Available
BOILING POINT:	185°C (365°F)
FLASH POINT:	No Data Available
MELTING POINT:	No Data Available
EVAPORATION RATE:	No Data Available
LOWER EXPLOSION LIMIT:	No Data Available
UPPER EXPLOSION LIMIT:	No Data Available

VAPOR PRESSURE:	approx. 20 mbar @ 55°C (131°F) approx. 8 mbar @ 20°C (68°F)
VAPOR DENSITY:	1.06 g/cm ³ @ 20°C (68°F)
RELATIVE VAPOR DENSITY:	No Data Available
SPECIFIC GRAVITY:	1.056 @ 25°C (77°F)
SOLUBILITY IN WATER:	Insoluble
AUTO-IGNITION TEMPERATURE:	ca. 375°C (707°F) @ 1,013 hPa (DIN 51794)
DECOMPOSITION TEMPERATURE:	ca. 234°C (453.2°F)
VISCOSITY:	approx. 910 cps @ 25°C (77°F)
MOLECULAR WEIGHT:	No Data Available
POUR POINT:	approx. -15°C (5°F)
VOC:	None

10. STABILITY AND REACTIVITY

HAZARDOUS REACTIONS

Hazardous polymerisation does not occur.

STABILITY

Stable under normal conditions of use and storage.

MATERIALS TO AVOID

Oxidizing agents, Acids, Isocyanates

CONDITIONS TO AVOID

Avoid extreme heat, and water.

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 allergic skin reaction with symptoms of reddening, itching, swelling, and rash., May cause skin irritation with symptoms of reddening, itching and swelling., May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling.

CHRONIC

Not expected to cause adverse chronic health effects.

TOXICITY DATA FOR REACTIVE ASPARTIC ESTERS (MIXTURE)

TOXICITY NOTE

Date is based on similar products.

ACUTE ORAL TOXICITY

Acute toxicity estimate: > 5000 mg/kg (calculation method)

LD50: > 2000 mg/kg (rat) (Directive 67/548/EEC, Annex V,B,1.)

Studies of a comparable product.

ACUTE INHALATION TOXICITY

LC50: >4.224 mg/l, 4h (rat, male/female) (OECD Test Guideline 403)

Toxicological studies of a comparable product.

ACUTE DERMAL TOXICITY

LD50: >2000 mg/kg (rat) (Directive 67/548/EEC, Annex V, B.3.)

Studies of a comparable product.

SKIN IRRITATION

OECD Test Guideline 403, slight irritant

EYE IRRITATION

Rabbit, OECD Test Guideline 405, slightly irritating

Toxicological studies of a comparable product.

SENSITIZATION

Skin sensitization according to Magnusson/Kligmann (maximizing test):: positive (guinea pig, OECD Test Guideline 406)

Toxicological studies of a comparable product.

REPEATED DOSE TOXICITY

Subacute oral toxicity: NOAEL: >1,000 mg/kg (rat, male/female)

Toxicological studies of a comparable product.

MUTAGENICITY

Genetic Toxicity in Vitro:

Chromosome aberration test in vitro: negative

Toxicological studies of a comparable product.

Salmonella/microsome test (Ames test): No indication of mutagenic effects.

Toxicological studies of a comparable product.

Genetic Toxicity in Vivo:

Micronucleus test: negative (mouse)

Toxicological studies of a comparable product.

negative

TOXICITY TO REPRODUCTION/FERTILITY

Two-generation study, Oral, (rat, male/female) Toxicological studies of a comparable product.

DEVELOPMENTAL TOXICITY/TERATOGENICITY

Rat, female, Oral. NOAEL (teratogenicity): 1,000 mg/kg, NOAEL (maternal): 1,000 mg/kg, Studies of a comparable product.

Carcinogenicity:

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

12. ECOLOGICAL INFORMATION

No data available for this product.

Please find the data for a similar product below.

ECOLOGICAL DATA FOR ASPARTIC ESTER

BIODEGRADATION

13%, Exposure time: 28 d, i.e. not readily degradable

Ecotoxicological reports on a comparable product

0%, Exposure time: 28 d, i.e. not inherently degradable

Ecotoxicological studies of the product

BIOACCUMULATION

Value calculated, 1,872 BCF

The substance hydrolyzes rapidly in water. An accumulation in aquatic organisms is not to be expected.

ACUTE AND PROLONGED TOXICITY TO FISH

LC50: 66 mg/l (Danio rerio (zebra fish), 96h)

Ecotoxicological reports on a comparable product

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

EC50: 88.6 mg/l (Daphnia magna (Water flea), 48h)

Studies of a comparable product

TOXICITY TO AQUATIC PLANTS

IC50: 113 mg/l (scenedesmus subspicatus, 72h)

Ecotoxicological reports on a comparable product

TOXICITY TO MICROORGANISMS

EC50: 3,110 mg/l (activated sludge, 3h)

Ecotoxicological reports on a comparable product

TOXICITY TO TERRESTRIAL PLANTS

NOEC: \geq 100 mg/kg, End Point: seedling emergence (Avena sativa (oats))

Studies of a comparable product

NOEC: \geq 100 mg/kg, End Point: seedling emergence (Allium cepa (onion))

Studies of a comparable product

NOEC: \geq 100 mg/kg, End Point: seedling emergence (Brassica napus (rape))

Studies of a comparable product

ADDITIONAL ECOTOXICOLOGICAL REMARKS

Data is based on a similar product.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste disposal should be in accordance with existing federal, state and local environmental control laws. Incineration is the preferred method. Do not dump into sewers, ground, or any body of water.

EMPTY CONTAINER PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed prior to disposal.

RCRA/EPA WASTE INFORMATION

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

LAND TRANSPORT (DOT)

PROPER SHIPPING NAME:	Polyaspartic Ester / Polyol Resin
HAZARD CLASS OR DIVISION:	Non Regulated
UN/NA NUMBER:	Non Regulated
PACKAGING GROUP:	Non Regulated
HAZARD LABEL(S):	Non Regulated

RSPA/DOT REGULATED COMPONENTS:

Non Regulated

REPORTABLE QUANTITY:	Non Regulated
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SEA TRANSPORT (IMDG):	Non-Regulated
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ADDITIONAL TRANSPORTATION INFORMATION

When in individual containers of less than the Product RQ, this material ships as non regulated.

15. REGULATORY INFORMATION

UNITED STATES FEDERAL REGULATIONS

US. TOXIC SUBSTANCES CONTROL ACT:

Listed on the TSCA Inventory

US. EPA CERCLA HAZARDOUS SUBSTANCES (40 CFR 302) COMPONENTS:

None

SARA SECTION 311/312 HAZARD CATEGORIES:

Acute Health Hazard

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 EXTREMELY HAZARDOUS SUBSTANCE (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 the 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. If discarded in purchased form this product is ignitable, 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:

WEIGHT PERCENT

<= 50-100%

COMPONENTS

Reactive Aspartic Ester

CAS-NO.

Trade Secret

CALIFORNIA PROP. 65:

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

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: 08-22-2012).

16. OTHER INFORMATION

The method of hazard communication for Mirabel Coatings, Inc. is comprised of Product Labels and Safety Data Sheets (SDS).

The handling of products containing reactive HDI polyisocyanate/prepolymer and/or monomeric HDI requires appropriate protective measures referred to in this SDS. These products are therefore recommended only for use in industrial or trade (commercial) applications. They are not suitable for use in Do-It-Yourself applications.

NFPA CODES:



DATE REVISED: 5/26/2015

REVISION SUMMARY: Conforming to the Globally Harmonized System SDS guidelines.

MANUFACTURER DISCLAIMER:

The information contained herein is based on the data available to us and is believed to be accurate. However, Mirabel Coatings, Inc. makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. The information in this SDS relates only to the specific material designated herein. Mirabel Coatings, Inc. assumes no legal responsibility for use of or reliance upon the information in this SDS, nor for injuries from the use of the product described herein.