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**MATERIAL SAFETY DATA SHEET**


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**GRANICRETE POLY UA-73 (Part B)**

GRANICRETE INTERNATIONAL, INC.  
 3420 S. 7<sup>TH</sup> STREET  
 SUITE 6  
 PHOENIX, AZ 85040  
 Phone: (602) 438-9464

**PERS: (800) 633-8253 24-HOUR EMERGENCY ASSISTANCE**

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**I. PRODUCT IDENTIFICATION**


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**PRODUCT NAME:** GRANICRETE POLY UA- 73 (PART B)  
**CHEMICAL FAMILY:** ASPARTIC ESTER

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**II. HAZARDOUS INGREDIENTS**


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<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Concentration(%)</u>
Aspartic Ester	TRADE SECRET	>50%
Specific chemical identity is withheld as a trade secret		
OSHA: Not Established		
ACGIH: Not Established		
Chlorobenzotrifluoride	98-56-6	<40%
Proprietary Ingredients		<10%

**EMERGENCY OVERVIEW**

**CAUTION:** Color: Amber Form: Liquid Odor: Slight  
 May cause eye, skin, and respiratory tract irritation. May cause allergic skin reaction:  
 irritating gases/fumes are given off during burning or thermal decomposition.

**Potential Health Effects**

**Primary Route of Entry:** Skin Contact, Eye Contact, Ingestion, Inhalation  
**Medical Conditions Aggravated By Exposure:** Skin disorders, Respiratory disorders, Eye disorders

**NFPA 704M Rating**

Health	2
Flammability	2
Reactivity	0
Other	

0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

\*= Chronic Health Hazard

**HMIS Rating**

Health	2*
Flammability	2
Physical	0

Hazard	
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0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

\* = Chronic Health Hazard

### III. PHYSICAL PROPERTIES

Physical Form:	Liquid
Color:	Amber
Odor:	Slight
Flash Point:	115°F
pH:	Not established
Boiling Point:	Not established
Melting/Freezing Point:	Not Established
Solubility in Water:	Insoluble
Specific Gravity:	1.06 g/cm <sup>3</sup> @ 68° F (25° C)
Bulk Density:	8.80 lbs/gal @ 77 F (25 C)
Vapor Pressure:	1.4 x 10 <sup>-5</sup> mm Hg @ 20°C (68°F)

### IV. FIRE AND EXPLOSION DATA

#### COMBUSTIBLE LIQUID

#### Flammable Limits:

Upper Flammable Limit (UEL) (%): 10.5

Lower Flammable Limit (LEL) (%): 0.9

Auto Ignition Temperature: >500°F

Extinguishing Media: Carbon Dioxide; Dry Chemical; foam; Water

#### Special Fire Fighting Procedures:

Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. Use cold water spray to cool fire-exposed containers. During a fire, irritating and/or toxic gases and smoke may be present from decomposition/combustion. Ammonia may be released during a fire situation in the presence of air.

#### Unusual Fire/Explosion Hazards:

None reported for this product.

### V. EMERGENCY AND FIRST AID PROCEDURES

Route(s) of Entry: Inhalation, Skin Contact, Eye

#### Human Effects and Symptoms of Overexposure:

**Inhalation:** Immediately remove patient to fresh air if breathing becomes difficult. If breathing has stopped administer artificial respiration. Administer oxygen if breathing is still difficult (to be done by qualified medical personnel). Consult a physician.

**Skin Contact:** Remove contaminated clothing, jewelry, and shoes. Wash affected areas thoroughly with soap and water. Clean contaminated clothing, jewelry and shoes before reuse. Obtain medical attention if irritation develops.

**Eye Contact:** Flush immediately with clean, lukewarm water (low pressure) for at least 15 minutes, while holding eyelids open, to ensure that the chemical is being flushed from the eyes. Obtain medical attention if irritation develops.

**Acute Ingestion:** DO NOT INDUCE VOMITING. Give 1 to 2 cups of water or milk for dilution. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Consult a physician immediately. Should vomiting occur, keep patient's head lower than hip level to prevent aspiration.

**NOTE TO PHYSICIAN:** Treat any ill effects symptomatically.

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## **VI. EMPLOYEE PROTECTION RECOMMENDATIONS**

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**Industrial Hygiene/Ventilation/Respiratory Measures:** Exhaust ventilation sufficient to control any generated contaminants. Curing ovens must be ventilated to prevent the buildup of explosive atmospheres and to prevent off gases from entering the workplace. In addition, a respirator that is recommended or approved for use in organic vapor containing environments (air purifying or fresh air supplied) may be necessary. In spray applications, an organic vapor/particulate respirator or air supplied unit is necessary. The use of a positive pressure supplied air respirator is mandatory when airborne concentrations are not known or if spraying is performed in a confined space or area with limited ventilation. Consider type of application and environmental concentrations. Take into account other materials being used concurrently. Observe OSHA regulations for respirator use (29 CFR 1910.134.)

**Eye Protection Requirements:** Liquid chemical goggles in combination with a full-face shield. Contact lenses should not be worn.

**Skin Protection Requirements:** Permeation resistant gloves (butyl rubber, nitrile rubber). Cover as much of the exposed skin area as possible with appropriate clothing. If skin creams are used, keep the area covered only by the cream to a minimum.

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## **VII. REACTIVITY DATA**

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<b>Stability:</b>	This is a stable material.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibilities:</b>	Oxidizing materials
<b>Instability Conditions:</b>	High heat
<b>Decomposition Products:</b>	By fire, amines, CO, CO <sub>2</sub> , oxides of nitrogen (NO <sub>x</sub> ), ammonia, and other aliphatic fragments which have not been determined.

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## **VIII. SPILL AND LEAK PROCEDURES**

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**Spill or Leak Procedures:** Cleanup personnel must use appropriate personal protective equipment. Remove all sources of ignition, including flames, heat and sparks. Dike or dam spilled material and control further spillage, if possible. Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems. Cover spill with inert material (e.g., dry sand or earth) and collect for proper disposal. Wash spill area with soap and water.

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## **IX. SPECIAL PRECAUTIONS & STORAGE DATA**

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<b><u>Storage Temperature (Min/Max):</u></b>	32°F (0°C)/122°F (50°C)
<b><u>Shelf Life:</u></b>	6 months at ambient temperatures

**Handling/Storage Precautions:** Material is hygroscopic and may absorb small amounts of atmospheric moisture. Keep container dry and tightly closed in a cool and well ventilated area. Take precautions against the buildup of electrostatic charges. Avoid getting material on skin and clothes, or in the eyes. Do not breathe vapors/mists if generated.

**Waste Disposal Method**

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

**Empty Container Precautions:**

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

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**X. SHIPPING INFORMATION**

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**LAND TRANSPORT (DOT)**

Technical Shipping Name:	Aspartic Ester with Chlorobenzotrifluorides
Hazard Class or Division:	3
UN Number:	UN2234
Packing Group:	III

**SEA TRANSPORT (IMO/ IMDG CODE) (OCEAN)**

Technical Shipping Name:	Aspartic Ester with Chlorobenzotrifluorides
Hazard Class or Division:	3
UN Number:	UN2234
Packing Group:	III

**AIR (ICAO/ IATA)**

Technical Shipping Name:	Aspartic Ester with Chlorobenzotrifluorides
Hazard Class or Division:	3
UN Number:	UN2234
Packing Group:	III

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**XI. ECOLOGICAL DATA**

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Fish Toxicity: LC50=66 mg/l (Brachydanio rerio (Zebra barbell)). Duration of test 96 hours.  
Invertebrate Toxicity: EC50=88.60 mg/l (Daphnia magna). Duration of test 48 hours.\*  
Biological Elimination: biodegradability: 13% - not readily degradable Degradation rate is 28 days.

Inhibition Bacteria: EC50 = 3110 mg/l.\*

Plant Toxicity: EC50 = 113 mg/l (Green algae (Scenedesmus subspicatus)). Duration of test 72 hours. \*

- Based on a similar product. On the basis of the ecotoxicological data, this product and the similar product are classified as harmful to aquatic organisms.

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**XII. FEDERAL REGULATORY INFORMATION**

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**OSHA Status:** This product is hazardous under the criteria of the Federal OSHA Hazard communication Standard 29 CFR 1910.1200.

**TSCA Status:** On TSCA Inventory

**CERCLA Reportable Quantity:** None Reported

**SARA Title III: Section 302** Hazardous substances: None

**Section 311/312 Categories:** Hazardous Categories: Immediate Health Hazard

**Section 313 Toxic Categories:** None

**RCRA Status:** When discarded in its purchased form, this product Would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

**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 MSDS 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:

<b>COMPONENT NAME</b>	<b>WEIGHT</b>	<b>STATE CODE</b>
Aspartic Ester		
NJTSRN (31765300002) – 7031P	100%	PA3,
NJ4		
Monoaspartate (Residual) (CAS# unavailable)	1-8%	PA3, NJ4
Aliphatic Carboxylic Ester (Residual) 623-91-6	1-5%	PA3,
NJ4		

NJ4 = New Jersey Other – included in 5 predominant ingredients >1%

NJTSRN = New Jersey Trade Secret Registry Number

PA3 = Pennsylvania Non-hazardous present at 3% or greater.

**WARNING: Prop 65**

To the best of my knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

**Massachusetts Substance List (MSL)**

Hazardous substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. To the best of our knowledge, this product contains no substances at a level which could require reporting under the statute.

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