

PERFORMANCE POLYUREA

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CHEMTREC: 800-424-9300

MATERIAL SAFETY DATA SHEET PREPARATION DATE: 05/25/09

I. PRODUCT IDENTIFICATION

PRODUCT NAME: POLYUREA – PART B
PRODUCT NUMBER: 9700
CHEMICAL FAMILY: ASPARTIC ESTER

II. HAZARDOUS INGREDIENTS

Ingredient Name	CAS Number	Concentration(%)
Aspartic Ester	Not Available	>50%
Specific chemical identity is withheld as a trade secret		
OSHA: Not Established		
ACGIH: Not Established		
Chlorobenzotrifluoride		<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 Hazard	0

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: 132°F (56°C)
pH: Not established

Boiling Point:	Not established
Melting/Freezing Point:	Not Established
Solubility in Water:	Insoluble
Specific Gravity:	1.06 g/cm ³ @ 68° F (25° C)
Bulk Density:	8.80 lbs/gal @ 77 F (25 C)
Vapor Pressure:	1.4 x 10 ⁻⁵ mm Hg @ 20°C (68°F)

IV. FIRE AND EXPLOSION DATA

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.

VI. EMPLOYEE PROTECTION RECOMMENDATIONS

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.

VII. REACTIVITY DATA

Stability: This is a stable material.
Hazardous Polymerization: Will not occur.
Incompatibilities: Oxidizing materials
Instability Conditions: High heat
Decomposition Products: By fire, amines, CO, CO₂, oxides of nitrogen (NO_x), ammonia, and other aliphatic fragments which have not been determined.

VIII. SPILL AND LEAK PROCEDURES

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.

IX. SPECIAL PRECAUTIONS & STORAGE DATA

Storage Temperature (Min/Max): 32°F (0°C)/122°F (50°C)
Shelf Life: 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.

X. SHIPPING INFORMATION

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

XI. ECOLOGICAL DATA

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.

XII. FEDERAL REGULATORY INFORMATION

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:

<u>COMPONENT NAME</u>	<u>WEIGHT</u>	<u>STATE CODE</u>
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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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