

SAFETY DATA SHEET

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1.IDENTIFICATION

#2800 MEGATHANE POLYASPARTIC PART A

2.HAZARDS IDENTIFICAION

Prepared according to Global Harmonized System (GHS) Standards

GHS Classification Scale 1=Severe Hazard; 4=Slight Hazard

GHS Ratings:

Flammable liquid 2 Flash point < 23°C and initial boiling point > 35°C (95°F)

Oral Toxicity

Inhalation Toxicity Acute Tox. 4

Gases>2500+<=20000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l

Eye corrosive 2A

Eye Irritation: Reversible adverse effects on cornea, iris, conjunctiva, Draize score: Corneal opacity >= 1, Iritis > 1, Redness >= 2, Chemosis >= 2

Respiratory sensitizer 1

Respiratory sensitizer

Skin sensitizer 1

Skin sensitizer

Organ toxin single exposure 3

Transient target organ effects- Narcotic effects- Respiratory tract irritation

GHS Hazards

H225 Highly flammable liquid and vapour

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation H332

Harmful if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H336 May cause drowsiness or dizziness

GHS Precautions

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking!

P233 Keep container tightly closed

P240 Ground / bond container and receiving equipment

P241 Use explosion-proof electrical, ventilating, lighting equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P264 Wash thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

P272 Contaminated work clothing should not be allowed out of the workplace

P280 Wear protective gloves, protective clothing, eye protection, face protection

P285 In case of inadequate ventilation wear respiratory protection

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P321 Specific treatment (see first aid section on this label/SDS)

P363 Wash contaminated clothing before reuse

P302+P352 IF ON SKIN: Wash with soap and water

P303+P361+P353 IF ON SKIN (or hair): Remove / Take off all contaminated clothing immediately. Rinse skin thoroughly with water / shower
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 IF IN EYES: Rinse continuously with cool water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
P337+P313 If eye irritation persists get medical advice / attention
P342+P311 Call a POISON CENTER or doctor/physician
P370+P378 In case of fire: Use dry chemical / CO2 / foam for extinction
P405 Store locked up
P403+P233 Store in a well ventilated area. Keep container tightly closed.
P403+P235 Store in a well ventilated area. Keep cool
P501 Dispose of contents / container to an approved waste disposal facility



3.COMPOSITION INFORMATION ON INGREDIENTS

Chemical Name / CAS No. OSHA	Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Hexamethylene diisocyanate homopolymer 28182-81-2 60 to 70% Vapor Pressure: .000075 mmHg			
n-Butyl acetate 123-86-4 10 to 20% Vapor Pressure: 9.751 mmHg	150 ppm TWA; 710 mg/m3 TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL
Acetone 67-64-1 10 to 20% Vapor Pressure: 174.765 mmHg	1000 ppm TWA; 2400 mg/m3 TWA	750 ppm STEL 500 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m3 TWA

4.FIRST AID MEASURES

Inhalation: Move affected person to fresh air. If breathing has stopped, administer CPR. If the person vomits, clean the airway and turn their head to the side to prevent choking. If the person is unconscious but breathing, place them stably on their left side in the recovery position. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Eyes: Flush eyes gently with clean water for at least 15 minutes. If irritation persists, seek immediate medical attention.

Skin: Remove any contaminated clothing using appropriate gloves. Rinse skin thoroughly for 15 minutes in a shower or with a hose. Seek immediate medical attention.

Ingestion: Rinse mouth with water to remove any residual chemical. If the person vomits, clean their airway and turn their head to the side to prevent choking. DO NOT induce vomiting and DO NOT give them anything to drink unless directed to do so by a physician. If the person is unconscious but breathing, place them stably on their left side in recovery position. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Additional Notes to Physician - Treat symptomatically. No specific antidote available

5 FIRE-FIGHTING MEASURES

LEL: N/A UEL: N/A

Suitable Extinguishing Media:

Foam Carbon Dioxide (CO₂) Dry Chemical

Specific Hazards During Firefighting: Prevent firefighting run-off from entering drains or sewers.

Byproducts of Combustion: Fires involving this product may release oxides of carbon and nitrogen, reactive hydrocarbons, and irritating vapors.

Unusual Fire and Explosion Hazards: Any closed container may rupture when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Spill / Leak Clean-Up Procedures:

Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spills, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers. If a large spill occurs notify the appropriate authorities.

In case of road spill or accident contact INFOTRAC (1-800-535-5053).

CAUTION: If spilled material is cleaned up using a regulated solvent, the resulting waste mixture will also be regulated.

Do not empty into drains. All disposal must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this material when spilled. See Section 14.

7. HANDLING AND STORAGE

Handling Precautions:

Open containers carefully and in a well ventilated area, and use appropriate respiratory protection. Wash hands thoroughly after handling. Keep containers closed when not in use. Do not transfer to unmarked containers. Empty containers contain product residue which may exhibit hazardous properties therefore, do not pressurize, cut, glaze, weld or use for any other purpose. Return drums to reclamation center for proper cleaning and reuse.

Storage Requirements:

Store in a cool, dry, well ventilated area. Keep containers tightly closed and store away from heat, sparks, open flame or oxidizing materials. Extended storage at excessive temperatures may produce odorous and toxic fumes from product decomposition.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Hexamethylene diisocyanate homopolymer

28182-81-2

150 ppm TWA; 710 mg/m³ TWA

200 ppm STEL

150 ppm TWA

NIOSH: 150 ppm TWA; 710 mg/m³ TWA

200 ppm STEL; 950 mg/m³ STEL

n-Butyl acetate

123-86-4

1000 ppm TWA; 2400 mg/m³ TWA

750 ppm STEL

500 ppm TWA

NIOSH: 250 ppm TWA; 590 mg/m³ TWA

Acetone

67-64-1

Engineering Controls: Avoid creating dust or mist. Local exhaust ventilation, process enclosures, or other engineering controls are required when handling or using this product to avoid over exposure. Use explosion-proof ventilation equipment. Do not use

in closed or confined spaces. Keep all levels below exposure limits. Perform regular monitoring to ensure exposure limits are not exceeded.

Personal Protective Equipment (PPE):

Respiratory Protection - Do not breathe vapors. When concentrations exceed the established limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA) until vapors are exhausted. Observe OSHA standard 29 CFR 1910.134 and ANSI Z88.2 requirements whenever workplace conditions require a respirators use.

Hand Protection - Wear appropriate protective gloves and clothing to prevent skin exposure. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product.

Eye Protection - Use safety eyewear with splash guards or side shields. Use additional eye protection such as chemical safety goggles when the possibility for eye contact from splashing, spraying liquid, or airborne material exists.

Skin Protection - Avoid contact with this product. Wear appropriate protective gloves and clothing to prevent skin exposure. Use proper glove and clothing removal techniques to avoid skin contact with this product. When handling large quantities, eye wash stations and deluge showers should be available.

Hygiene Measures:

General - When using do not eat or drink. Wash hands with soap and water before breaks and at the end of each workday.

Contaminated Equipment - Avoid contact with contaminated clothing and protective gear/equipment. Wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

typically exhibits the following properties under normal circumstances:

Appearance Liquid Dispersion

Organic Solvent **Odor**

Physical State LIQUID

Specific Gravity (SG) 1.022

Lbs VOC/Gallon Less Water 1.66

Flash point: -4c 25F

g VOC/L Less Water 199.02

Boiling range 56C

10. STABILKITY AND RECTIVITY

This material is stable under recommended storage conditions

Incompatible Materials: Strong acids, strong bases, oxidizing agents

Avoid contact with Acids and Oxidizers

Hazardous Decomposition Products: Carbon Dioxide (CO₂), Carbon Monoxide (CO), Oxides of Nitrogen (NO_x), dense black smoke

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Inhalation Toxicity: 20.00mg/L

Note - Toxicological studies have not been performed on this mixture. The toxicological data listed is compiled using data from the components of the mixture. Refer to Section 2 of this SDS for GHS classification of acute and chronic effects of exposure.

Principle Routes of Exposure:

Inhalation Skin Contact Eye Contact Ingestion

May cause damage to the following organs:

Eyes Kidneys Liver Lungs Central Nervous System Skin Cardiovascular System Respiratory System

Effects of Overexposure: Not Determined

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing) or ACGIH (optional listing)

12 ECOLOGICAL INFORMATION

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Persistence and Degradability: No data available

Component Ecotoxicity

n-Butyl acetate
96 Hr LC50 Lepomis macrochirus: 100 mg/L [static]
96 Hr LC50 Pimephales promelas: 17 - 19 mg/L [flow-through]
72 Hr EC50 Desmodemus subspicatus: 674.7 mg/L
Acetone
96 Hr LC50 Oncorhynchus mykiss: 4.74 - 6.33 mL/L
96 Hr LC50 Pimephales promelas: 6210 - 8120 mg/L [static]
96 Hr LC50 Lepomis macrochirus: 8300 mg/L
48 Hr EC50 Daphnia magna: 10294 - 17704 mg/L [Static]
48 Hr EC50 Daphnia magna: 12600 - 12700 mg/L

13. DISPOSAL CONSIDERATIONS

Do not discharge product into sewer system. Dispose of in a licensed facility. Waste management should be in full compliance with federal, state, and local laws.

The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Chemical additions, processing, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate.

14. TRANSPORTATION CONSIDERATIONS

This material is classified for transport as follows:

U.S. DOT	Proper shipping name	UN Number	packing group	hazard class
	Flammable Liquid, n.o.s (n-butyl acetate, acetone)	1993	3	III

15 .REGULATORY INFORMATION

Additional regulatory listings where applicable

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40, of the Code of Federal Regulations, part 372:

67-64-1 Acetone

123-86-4 n-Butyl acetate

Massachusetts Right To Know This product contains the following toxic or hazardous substance(s) which appear on the Massachusetts Substance List:

67-64-1 Acetone

123-86-4 n-Butyl acetate

New Jersey Worker and Community Right to Know Hazardous Substance List The following substance(s) appear on the New Jersey Right to Know Hazardous Substance List:

67-64-1 Acetone

123-86-4 n-Butyl acetate

Commonwealth of Pennsylvania Worker and Community Right To Know Act This product contains the following substance(s) which appear on the Pennsylvania Hazardous Substance List:

67-64-1 Acetone

123-86-4 n-Butyl acetate

TSCA Substance Control Act (TSCA) All substances except those listed below appear in the Toxic Substances Control Act, Chemical Substance Inventory:

- None

16. OTHER INFORMATION

Disclaimer: The Volatile Organic Compound (VOC) content reported herein, if any, is based on a material VOC calculation. Several methods are used for the calculation of VOC content, and the standards and requirements regarding VOC content vary by location or jurisdiction

Notice to reader

NOTE: TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER C.D. PRODUCTS INC. ASSUMES NO LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. THE FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSE OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTY THAT THESE ARE THE ONLY HAZARDS WHICH EXIST.