

# SAFETY DATA SHEET

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## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

### MATERIAL IDENTITY:

ENVIROTECH® 500 GS

### INFORMATION TELEPHONE:

swatkins@innovationsam.com

### COMPANY:

Innovations Amplified  
2627 N Emerson Avenue  
Indianapolis, IN, USA 46218

### EMERGENCY TELEPHONE:

CHEMTREC: 800-424-9300

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### OSHA HAZARDOUS

Skin sensitizer, Skin, Eye, Respiratory Irritant, Digestive Tract Irritant

Target Organs: Respiratory, Eyes, Skin, Digestive Tract

### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Health		Environmental	Physical
Eye Irritation	Category 2A	Not Classified	Not Classified
Respiratory Sensitization	Category 1		
Skin Sensitization	Category 1		

Pictogram:



Signal Word

Danger

Hazard Statements		Precautionary Statements
H317	May cause an allergic skin reaction	P261 Avoid breathing dust/fume/gas/mist/vapours/ spray.
H319	Causes serious eye irritation	P264 Wash thoroughly after handling.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	P272 Contaminated work clothing should not be allowed out of the workplace.
		P280 Wear protective gloves/eye protection/face protection.
		P285 In case of inadequate ventilation wear respiratory protection.
		P302+P352 IF ON SKIN: Wash with plenty of soap and water.
		P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P333 + P313 If skin irritation or rash occurs get medical advice/ attention.
		P337 + P311 If eye irritation persists: Get medical advice/ attention.
		P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
		P363 Wash contaminated clothing before reuse.
		P501 Dispose of containers in accordance with

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	local/regional/national/international requirements.
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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
Diphenylmethane 4,4 -diisocyanate Methylenediisocyanate	101-68-8	25-50
Propylene Carbonate	108-32-7	20-30
Isomers and Homologues	9016-87-9	10-30
2,2'-Dimorpholinodiethyl ether	6425-39-4	0.1-4.0

## 4. FIRST AID MEASURES

**Eyes Contact:** Immediately flush eyes gently with large amounts of water for at least 15 minutes. Retract eyelids often. Get prompt medical attention. Can cause pain, tearing, reddening, and swelling accompanied by a stinging sensation. Chronic exposure can cause corneal opacity.

**Skin Contact:** Thoroughly wash the exposed area with mild soap and water. Remove contaminated clothing and launder contaminated clothing before re-use. Seek medical attention if exposure symptoms develop.

May be harmful if absorbed through the skin. Symptoms of irritation may be reddening swelling, rash, scaling or blistering. May cause sensitization and allergic reaction.

**Ingestion:** If victim is conscious and alert, give 2 - 3 glasses of water to drink and induce vomiting by touching the back of the throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than the waist if vomiting occurs and the victim is conscious; give water to further dilute the chemical.

May be harmful if swallowed. Can cause irritation and possible corrosive action to the mouth, stomach tissue and digestive tract.

**Inhalation:** If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention immediately. May cause shortness of breath, headache, nausea, vomiting, respiratory tract irritation.

**Advise to physicians:** All treatment should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Exposure may aggravate asthma and other respiratory disorders (bronchitis, emphysema, and hyperactivity) skin allergies and eczema.

## 5. FIRE FIGHTING MEASURES

### Conditions of Flammability

Product will burn under fire conditions. Under fire conditions, toxic, corrosive fumes are emitted including nitrogen and carbon oxides. Use water to cool tightly closed containers exposed to fire. Self contained breathing apparatus and full protective clothing is required when smoke or fumes are generated.

### Suitable extinguishing media

Dry Chemical, CO<sub>2</sub>, Foam, **WATER IS NOT** recommended.

### Hazardous Decomposition Products

Thermal decomposition may produce nitrogen oxides and carbon oxides.

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## Fire Fighting Instructions

Do not enter fire area without proper protection. Wear self contained breathing apparatus (pressure-demand MSHA/NIOSH) approved or equivalent. See Section 10 - decomposition products possible. Fight fire from safe distance/protected location. Use water spray/fog for cooling tightly sealed containers. Notify authorities if liquid enters sewer/public waters.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

### Environmental Precautions

Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Notify authorities of any releases to sewers, soils, waterways or air. Prevent runoff from entering drains, sewers, or streams. Dispose/report per regulatory requirements. See Section 1 for emergency contact information and Section 13 for waste disposal.

### Methods and Materials for Containment and Cleaning Up

Cover spills and soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into disposal container. Pump free liquid into an appropriate closed container. Clean up spill area with a decontamination solution made up of 50% isopropanol, 45% water and 5% concentration ammonia solution (% by Weight). The solution should cover the area for at least one hour. Absorb with an inert absorbent. Collect washing for disposal. Dispose/report per regulatory requirements. **Do not** flush into drains.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

### Conditions for Safe Storage

This material is stable under normal handling and storage conditions. Maximum storage temperature is < 40 C (104 F). Store in a dry, well ventilated area. Store, transfer and handle under a blanket of nitrogen. Before closing partially empty containers, blanket with dry nitrogen. Replace damaged gaskets.

Store in tightly closed containers. Store in original container. Recommended container material: aluminum, epoxy coated steel, stainless steel, plastic. Container material to avoid, copper, tin.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS

HAZARDOUS COMPONENT	PEL	STEL	TLV	Other
Diphenylmethane 4,4 diisocyanate	NE	NE	NE	NE
Methylenediisocyanate				
Isomers and Homologues	NE	NE	ACGIH 0.005 ppm	NE

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## Engineering Controls

Local exhaust ventilation may be required in addition to general room ventilation. Good industrial hygiene practice dictates that worker protection be achieved through ventilation whenever feasible.

## Respiratory Protections

Where respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations. Full-face air purifying respirators are required in work environments where isocyanate airborne concentrations exceed the action level but are significantly lower than the IDLH provided that the cartridges are changed daily. Use combination HEPA Filter for the polyisocyanate aerosol and an organic vapor cartridge for the solvents used. Full face supplied air respirators (SAR) are required in work environments where isocyanate airborne concentrations have not been characterized or are expected to exhibit considerable and sudden variations such as in spray type application. Curing ovens must be ventilated to prevent emissions to the workplace.

## Eye Protection

Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor. Contact lenses should not be worn.

## Skin and Body Protection

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. Gloves should be impervious neoprene, rubber or latex. Clean equipment thoroughly after each use.

## Other hygienic practices

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

## OTHER WORK PRACTICES

Precautions must be taken so that persons handling this product do not allow contact with eyes or skin. In spray operations protection must be afforded against exposure to both vapor and spray mists.

Use good personal hygiene practices. Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is being used. Wash hands before eating, drinking, smoking or using toilet facilities. Wash exposed skin promptly to remove accidental splashes or contact with these materials. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Form	Viscous Liquid
Color	Amber to dark brown
pH	Not available
Melting/Freezing Temperature	N/A
Boiling Point	255 C (491 F)
Flash Point	170 C/ 338 F
Ignition Temperature	Not available
Autoignition Temperature	454 C (849 F)
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	0.001 mm Hg at 20 C
Vapor Density (air=1)	5.8 Air = 1
Specific Gravity (water=1 @39.2F)	1.23 at 20 C/68F
Evaporation Rate (Bac=1)	Not available
Odor	negligible
Odor threshold	Not available

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**10. STABILITY AND REACTIVITY**

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**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

Stable under normal processing conditions.

**Conditions to Avoid**

Reacts violently with common materials including water, alcohols, bases and amines.

**Materials to Avoid**

Store away from water, alcohols, bases, and amines.

**Hazardous Decomposition Products**

Thermal decomposition may produce nitrogen oxides and carbon oxides.

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**11. TOXICOLOGY INFORMATION**

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**Acute Toxicity** hexamethylene diisocyanate

Oral LD50 – lethal concentration 50% of test species	Rat	> 5,000 mg/kg
Dermal LD50 – lethal concentration 50% of test species	Rabbit	> 2,000 mg/kg
Inhalation LD50 – lethal concentration 50% of test species	Rat	2.18 mg/l – 4 hr

**Skin Corrosion/Irritation**

Skin	Rabbit	Slightly Irritating
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**Serious Eye Damage/Eye Irritation**

Eye	Rabbit	Mildly Irritating
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**Respiratory or Skin Sensitization**

Skin	Guinea Pig	Sensitizing
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**Mutagenicity**

No data available

**Carcinogenicity**

IARC: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

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**12. ECOLOGICAL INFORMATION**

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**Aquatic Ecotoxicity**

No data available

**Biodegradability**

No data available

**Bioaccumulative potential**

No data available

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**Mobility in soil**

No data available

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**13. DISPOSAL CONSIDERATIONS**

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**Waste Disposal**

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristics definition of ignitability, corrosiveness, or reactivity and is not listed in 40CFR261.33. The toxicity characteristic (TC), has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

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**14. TRANSPORTATION INFORMATION**

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**DOT (US)**

Not regulated by DOT

**IMDG**

Not regulated by IMDG

**IATA**

Not regulated by IATA

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**15. REGULATORY INFORMATION**

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**TSCA INVENTORY STATUS**

All components are listed or exempt

**OSHA HAZARDS**

Skin Irritant, Skin Sensitizer, Eye Irritant, Respiratory Irritant, Digestive Tract Irritant

	HMIS Classification	NFPA Rating
Health Hazard;	2	2
Flammability	1	1
Physical Hazards	1	1

**SARA TITLE III: Section 311/312 Hazard Class**

Hexamethylene diisocyanate

CERCLA/SARA RQ  
100 lbs**SARA TITLE III: Section 313 (40CFR370)**

Hexamethylene diisocyanate

CERCLA/SARA RQ  
100 lbs**CERCLA Information (40CFR302.4)**

This material contains Hexamethylene diisocyanate and releases in excess of CERCLA thresholds are reportable.

**California Proposition 65 Information:**

This product does not contain, or may contain substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

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**16. OTHER INFORMATION**

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Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).