

MATERIAL SAFETY DATA SHEET

MSDS 0621

 =====
 Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

		HMIS CODES	
PRODUCT NAME		Health	2
RectorSeal Pipe Repair Kit		Flammability	1
		Reactivity	0
PRODUCT CODES		PPI	B
82112			
CHEMICAL FAMILY			
Organic/Inorganic			
USE			
Pipe Wrap			
MANUFACTURER'S NAME		EMERGENCY TELEPHONE NO.	
The RectorSeal Corporation		Chemtrec 24 Hours	
2601 Spenwick Drive		(800) 424-9300	
Houston, Texas 77055 USA			
DATE OF PREPARATION		TECHNICAL SERVICE TELEPHONE NO.	
January 5, 2005		(800) 231-3345	

 =====
 Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
34.4	9048-57-1	Polypropylene polyol diphenyl methane di-isocyanate prepolymer	
		ACGIH TLV	N/D ppm
		OSHA PEL	N/D ppm
7.4	101-68-8	Methylene bisphenyl isocyanate (MDI)	
		ACGIH TLV	0.005 ppm
		OSHA PEL CL	0.02 ppm
trace		Silicone	
		ACGIH TLV	N/D
		OSHA PEL	N/D
4.7		Synthetic rubber	
		ACGIH TLV	N/D
		OSHA PEL	N/D
4.7		Aluminum foil pouch	
		ACGIH TLV	N/D
		OSHA PEL	N/D
46.4		Fiberglass knit fabric	
		ACGIH TLV	N/D
		OSHA PEL	N/D
2.4		Polyethylene core	
		ACGIH TLV	N/D
		OSHA PEL	N/D

 =====
 Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS

When water is added to product at temperatures greater than 122 F, part of the resin may be liberated in the form of MDI fume. Do not exceed this temperature

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION

Avoid breathing dust from cutting cured product. A vacuum saw is recommended.

EYE CONTACT

N/A

SKIN CONTACT

Wash thoroughly with soap and water.

INGESTION

Drink plenty of water. Consult physician. Do not induce vomiting.

SUMMARY OF CHRONIC HAZARDS

None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Open cuts or abrasions or rashes on skin.

=====
Section 4 -- FIRST AID MEASURES
=====

If INHALED: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

If on SKIN: Use a rag to remove excess from skin and remove contaminated clothing. Use of mild solvent, such as acetone (nail polish remover) or mineral spirits, may help in removing uncured residue from clothing or other surfaces (avoid eye contact). Cured resin may be physically removed by persistent washing with soap and water. If irritation develops, use mild skin cream. If it persists, obtain medical attention.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.

If SWALLOWED: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

=====
Section 5 -- FIRE FIGHTING MEASURES
=====

FLASH POINT	LEL	UEL
> 350 F (177 C) ASTM D-93 (Closed Cup)	N/A	N/A
Nil for uncured product		

EXTINGUISHING MEDIA

Dry chemical, carbon dioxide, halon 1211, chemical foam, or water spray if used in large quantities (water contamination will produce carbon dioxide).

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and other protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

=====
Section 6 -- ACCIDENTAL RELEASE MEASURES
=====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: If package splits or breaks, ensure ventilation is adequate to prevent build up of potentially harmful vapors. Scrape up material and place into container for disposal. Decontaminate area and equipment with dilute ammonia and detergent. Mix additional absorbent into spill and dispose.

=====
Section 7 -- HANDLING AND STORAGE
=====

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool, dry, well ventilated area out of direct sunlight. Store away from all heat sources. Optimum storage conditions 40F-83F. For best results, rotate stock.

OTHER PRECAUTIONS: Removal with oscillating saws without adequate ventilation will potentially cause irritant dusts to be generated into atmosphere. The use of shears is recommended to remove old product from pipes so as to minimize dust formation.

=====
 Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH/MSHA supplied air / SCBA if TLV exceeded.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: N/A

MECHANICAL (GENERAL): Acceptable

OTHER: N/A

PROTECTIVE GLOVES: Wear rubber gloves.

EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Tyvek coveralls recommended.

WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

=====
 Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A

SPECIFIC GRAVITY (H₂O = 1): 1.23 at 110 F (prepolymer)

VAPOR PRESSURE (mm Hg): N/A

MELTING POINT: N/A

VAPOR DENSITY (AIR = 1): N/A

EVAPORATION RATE (ETHYL ACETATE = 1): N/A

APPEARANCE/ODOR: Very slight odor, white to yellowish, tacky resin on a Fiberglass roll

SOLUBILITY IN WATER: Insoluble

=====
 Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: None

=====
 Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

Ingredient Name

4,4' - Diphenylmethane / Diisocyanate (MDI)
 Oral-Rat LD50:N/D
 Inhalation-Rat LC50:N/D

=====
 Section 12 -- Ecological Information

ECOLOGICAL DATA

Ingredient Name

4,4' - Diphenylmethane / Diisocyanate (MDI)
 Food Chain Concentration Potential: N/D
 Waterfowl Toxicity: N/D
 BOD: N/D
 Aquatic Toxicity: N/D

=====
 Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Non-Regulated Solid Waste
Disposal Method: Dispose of all waste in accordance with all local, state and federal regulations.
=====

Section 14 -- TRANSPORTATION INFORMATION

DOT: Non-Regulated
OCEAN (IMDG): Non-Regulated
AIR (IATA): Non-Regulated
WHMIS (CANADA): Non-Regulated
=====

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA
Ingredient Name

4,4' - Diphenylmethane / Diisocyanate (MDI)
SARA 313 Yes
TSCA Inventory Yes
CERCLA RQ 5,000 lbs.
RCRA Code N/A
=====

Section 16 -- OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001