

1. Product and Company Identification

Material name Seal Tite Pipe Wrap
Version # 00
Issue date 04-30-2013
Revision date 04-30-2013
Supersedes date -
Chemical description Catalyst
CAS # Mixture
Product code 807-0033
Product use Industrial Leak Sealant.
Manufacturer information
Manufacturer/Supplier Team Industrial Services, Inc.
Address 200 Hermann Drive, Alvin, Texas 77511, US
Emergency telephone number CHEMTREC - 24 HOURS
 USA: CHEMTREC: 800-424-9300
 International: 703-527-3887 (Collect)

2. Hazards Identification

Physical state Solid.
Appearance Tacky resin on a fiberglass substrate.
Emergency overview DANGER
 May be harmful if inhaled. Causes skin, eye and respiratory tract irritation. May cause allergic skin reaction. May cause allergic respiratory reaction. Suspect cancer hazard - may cause cancer.
OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Routes of exposure Eye contact. Skin contact. Ingestion. Inhalation.
Eyes Causes eye irritation.
Skin Causes skin irritation. May cause sensitization by skin contact.
Inhalation May cause allergic respiratory reaction. Causes respiratory tract irritation.
Ingestion May be harmful if swallowed.
Target organs Eyes. Skin. Respiratory system
Chronic effects May cause allergic skin disorders in sensitive individuals.
Signs and symptoms Sensitization. Wheezing. Difficulty in breathing. Irritation of eyes and mucous membranes. Skin irritation. Ingestion may cause irritation and malaise.
Potential environmental effects The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Fibrous glass	65997-17-3	48-52
Methylene diphenyl diisocyanate	101-68-8	34-38
Ingredients not precisely identified (including Polyethylene glycols) are proprietary and nonhazardous	N/A	<12
Amine catalyst	6425-39-4	1-5
Methanesulfonic acid	75-75-2	<1

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention.

Skin contact Remove contaminated clothing. Wash immediately with soap and water for at least 15 minutes. Get medical attention promptly if symptoms persist or occur after washing. Discard contaminated shoes and clothing.

Inhalation Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Ingestion Get medical attention if any discomfort occurs.

Notes to physician Provide general supportive measures and treat symptomatically.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties The product is not flammable. However: Will burn if strongly heated and when involved in fire.

Extinguishing media

Suitable extinguishing media Dry chemical powder. Carbon dioxide (CO₂). Foam.

Unsuitable extinguishing media None known.

Protection of firefighters

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Hazardous combustion products Carbon oxides. Nitrogen oxides. Silicon oxides.

6. Accidental Release Measures

Personal precautions Avoid inhalation of vapors and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see Section 8 of the MSDS.

Environmental precautions Prevent entry into waterways, sewer, basements or confined areas. Environmental manager must be informed of all major spillages.

Methods for containment Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Collect and dispose of spillage as indicated in Section 13 of the MSDS.

Methods for cleaning up Wipe up with absorbent material (e.g. cloth, fleece). Prevent product from entering drains. Never return spills in original containers for re-use. Should not be released into the environment.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Wear personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid inhalation of vapors and contact with skin and eyes.

Storage Store in tightly closed original container. Store in a cool and well-ventilated place. Store away from incompatible materials.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Fibrous glass (CAS 65997-17-3)	TWA	1 fibers/cm ³	Fiber.
		5 mg/m ³	Inhalable fraction.
Methylene diphenyl diisocyanate (CAS 101-68-8)	TWA	0.005 ppm	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Methylene diphenyl diisocyanate (CAS 101-68-8)	Ceiling	0.2 mg/m ³	
		0.02 ppm	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Fibrous glass (CAS 65997-17-3)	TWA	0.2 fibers/cm ³	Fiber.
		5 mg/m ³	Total particulate.
Methylene diphenyl diisocyanate (CAS 101-68-8)	TWA	5 mg/m ³	Fiber, total
		0.05 mg/m ³	
		0.005 ppm	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Fibrous glass (CAS 65997-17-3)	TWA	0.2 fibers/cm ³	Fiber.
		5 mg/m ³	Inhalable fibers.
Methylene diphenyl diisocyanate (CAS 101-68-8)	Ceiling	0.01 ppm	
	TWA	0.005 ppm	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Fibrous glass (CAS 65997-17-3)	TWA	1 fibers/ml	Respirable fibers.
		5 mg/m ³	Inhalable
Methylene diphenyl diisocyanate (CAS 101-68-8)	Ceiling	0.02 ppm	
	TWA	0.005 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Fibrous glass (CAS 65997-17-3)	TWA	1 fibres/cm ³	Fiber.
		(non-asbe 10 mg/m ³)	Total dust.
Methylene diphenyl diisocyanate (CAS 101-68-8)	TWA	0.051 mg/m ³	
		0.005 ppm	

Mexico. Occupational Exposure Limit Values

Components	Type	Value	Form
Fibrous glass (CAS 65997-17-3)	TWA	10 mg/m ³	Dust.
Methylene diphenyl diisocyanate (CAS 101-68-8)	TWA	0.051 mg/m ³	
		0.005 ppm	

Exposure guidelines No exposure standards allocated.

Canada - British Columbia OELs: Skin designation

Methylene diphenyl diisocyanate (CAS 101-68-8) Can be absorbed through the skin.

Engineering controls General ventilation normally adequate. Ensure adequate ventilation, especially in confined areas. Provide easy access to water supply and eye wash facilities.

Personal protective equipment

Eye / face protection Wear approved chemical safety goggles. Use face shield in case of splash risk.

Skin protection Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact chemical protective clothing manufacturer for specific information.

Respiratory protection In case of inadequate ventilation, use respiratory protection.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance Tacky resin on a fiberglass substrate.

Physical state Solid.

Form Solid.

Color Not available.

Odor Slight odor.

Odor threshold Not available.

pH Not available.

Vapor pressure 0.0002 mm Hg (75°F/24°C)

Vapor density Not available.

Boiling point > 392 °F (> 200 °C) Decomposes.

Melting point/Freezing point Not available.

Solubility (water) Insoluble in water.

Specific gravity 1.13 (Water=1)

Flash point Not available.

Flammability limits in air, upper, % by volume Not available.

Flammability limits in air, lower, % by volume Not available.

Auto-ignition temperature Not available.

10. Chemical Stability & Reactivity Information

Chemical stability The product is stable under normal conditions of use, storage and transport.

Conditions to avoid Exposure to heat and contact with sources of ignition. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products During combustion: Carbon oxides. Nitrogen oxides. Silicon oxides.

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Methylene diphenyl diisocyanate (CAS 101-68-8)		
Acute		
<i>Inhalation</i>		
LC50	Rat	0.369 mg/l, 4 Hours
Sensitization	May cause allergic respiratory and skin reactions.	
Acute effects	Ingestion may cause irritation and malaise.	
Local effects	Causes skin, eye and respiratory tract irritation. Exposed individuals may experience eye tearing, redness, and discomfort.	
Chronic effects	May cause allergic respiratory and skin reactions.	
Carcinogenicity	Suspected of causing cancer.	
ACGIH Carcinogens		
Fibrous glass (CAS 65997-17-3)		A4 Not classifiable as a human carcinogen.
US NTP Report on Carcinogens: Anticipated carcinogen		
Fibrous glass (CAS 65997-17-3)		Reasonably Anticipated to be a Human Carcinogen.
Epidemiology	Not available.	
Mutagenicity	Not classified.	
Neurological effects	Not available.	
Reproductive effects	Not classified.	
Teratogenicity	Not available.	
Symptoms and target organs	Sensitization. Wheezing. Difficulty in breathing. Irritation of eyes and mucous membranes. Skin irritation. Ingestion may cause irritation and malaise.	

12. Ecological Information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Environmental effects	This product is toxic to fish and other aquatic organisms.
Persistence and degradability	Expected to be persistent.
Bioaccumulation / Accumulation	The product is not expected to bioaccumulate.
Mobility in environmental media	The product reacts with water to form a solid insoluble reaction product which is non-degradable, according to information available.

13. Disposal Considerations

Waste codes	Not regulated.
Disposal instructions	Dispose in accordance with all applicable regulations. Do not allow runoff to sewer, waterway or ground.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT	Not regulated as a hazardous material by DOT.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
TDG	Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Methylene diphenyl diisocyanate (CAS 101-68-8)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Methylene diphenyl diisocyanate (CAS 101-68-8) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Methylene diphenyl diisocyanate (CAS 101-68-8) Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Methylene diphenyl diisocyanate: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)
No

SARA 311/312 Hazardous chemical
No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)
Not controlled

Canadian regulations This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS status Controlled

WHMIS classification
D1A - Immediate/Serious-VERY TOXIC
D2A - Other Toxic Effects-VERY TOXIC
D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations This product does not contain a chemical known to the State of California to cause cancer birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Fibrous glass (CAS 65997-17-3) Listed.
Methylene diphenyl diisocyanate (CAS 101-68-8) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Fibrous glass (CAS 65997-17-3) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Fibrous glass (CAS 65997-17-3) Listed: July 1, 1990 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Fibrous glass (CAS 65997-17-3) Listed.
Methylene diphenyl diisocyanate (CAS 101-68-8) Listed.

US. Massachusetts RTK - Substance List

Fibrous glass (CAS 65997-17-3) Listed.
Methylene diphenyl diisocyanate (CAS 101-68-8) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Methylene diphenyl diisocyanate (CAS 101-68-8) 500 lbs

US. Pennsylvania RTK - Hazardous Substances

Fibrous glass (CAS 65997-17-3) Listed.
Methylene diphenyl diisocyanate (CAS 101-68-8) Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.
I - Safety Glasses, Gloves, Dust, Vapor Respirator

HMIS® ratings Health: 2*
Flammability: 1
Physical hazard: 1

NFPA ratings Health: 2
Flammability: 1
Instability: 1

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.