SAFETY DATA SHEET

Section 1. Identification

Producer

InduMar Products, Inc. 1238 N. Post Oak, Suite 100 Houston, TX 77055

Tel: (800) 523-7867 Fax: (713) 977-4164 Web: indumar.com

Emergency telephone

number

(800)262-8200 (24 Hours) Chemtrec Contract No.: 17567

Product name FIX STIX™
Code 34978

Specific uses Sealants and adhesives

Section 2. Hazards identification

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the SKIN CORROSION/IRRITATION - Category 2

substance or mixture SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

SKIN SENSITIZATION - Category 1

GHS label elements

Hazard pictograms



Signal word Warning!

Hazard statements Causes skin and eye irritation.

May cause an allergic skin reaction.

Precautionary statements

Prevention Wear protective gloves. Wear eye or face protection. Avoid breathing dust. Wash

hands thoroughly after handling. Contaminated work clothing should not be allowed out

of the workplace.

Response IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.

Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical attention.

Storage Not applicable.

Disposal Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

None known.

Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Ingredient name	% by weight	CAS number
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	10 - 30	25068-38-6
crystalline silica non-respirable	0.1 - 1	14808-60-7

Canada

Name	CAS number	%
Talc, not containing asbestiform fibres	14807-96-6	30 - 60
Ferrosilicon	8049-17-0	10 - 30
glass, oxide, chemicals	65997-17-3	10 - 30
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	25068-38-6	10 - 30
Nepheline syenite	37244-96-5	1 - 5
crystalline silica non-respirable	14808-60-7	0.1 - 1

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Inhalation Remove vio

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation No known significant effects or critical hazards.

Skin contactCauses skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Inhalation No specific data.

Section 4. First aid measures

Skin contact Adverse symptoms may include the following:

irritation redness

Eye contact Adverse symptoms may include the following:

pain or irritation

watering redness

Ingestion No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities

Use an extinguishing agent suitable for the surrounding fire.

have been ingested or inhaled.

Specific treatments No specific treatment.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

None known.

Specific hazards arising from the chemical

No specific fire or explosion hazard.

National Fire Protection Association (U.S.A.)



Flammability

Instability/Reactivity

Special

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	CAS#	Exposure limits
crystalline silica non-respirable	14808-60-7	OSHA PEL Z3 (United States, 9/2005). Notes: 250/(%SiO2+5) TWA: 250 MPPCF / (%SiO2+5) 8 hours. Form: Respirable OSHA PEL Z3 (United States, 9/2005). Notes: 10/(SiO2+2) TWA: 10 MG/M3 / (%SiO2+2) 8 hours. Form: Respirable ACGIH TLV (United States, 3/2012). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 1/2013). TWA: 0.05 mg/m³ 10 hours. Form: Respirable dust OSHA PEL Z3 (United States, 9/2005). Notes: 30/(%SiO2+2) TWA: 30 MG/M3 / (%SiO2+2) 8 hours. Form: Total dust.
Date of issue/Date of revision	3 March 2014	Date of previous issue No previous validation. Version 1 4/11

Section 8. Exposure controls/personal protection

Canada

Occupational exposure limits		TWA	(8 hours	5)	STEL	(15 min	s)	Ceiling	3		
Ingredient	List name	ppm	mg/ m³	Other	ppm	mg/ m³	Other	ppm	mg/ m³	Other	Notations
Talc, not containing asbestiform fibres	AB 4/2009	-	2	-	-	-	-	-	-	-	[a]
	BC 4/2012	-	2	-	-	-	-	-	-	-	[b]
		-	-	0.1 f/cc	-	-	-	-	-	-	
	ON 1/2013	-	2	-	-	-	-	-	-	-	[c]
		-	2	-	-	-	-	-	-	-	[d]
	00.40/0040	-	-	2 f/cc	-	-	-	-	-	-	
Olara suida abandasla	QC 12/2012	-	3	-	-	-	-	-	-	-	[e]
Glass, oxide, chemicals	US ACGIH 3/2012	-	5	1 1/00	-	-	-	-	-	-	[f]
	US ACGIH 3/2012 AB 4/2009	-	-	1 f/cc 1 f/cc	-	-	-	_	_	-	[g]
	AD 4/2009		5 5	1 1/00	1	-		<u>-</u>	<u> </u>		[h]
	BC 4/2012	_	5	_	_	_	_	_	_	_	[i] [j]
	00 1/2012	_	-	1 f/cc	-	_	_	l _	_	-	נט
	ON 1/2013	-	10	-	-	-	-	-	-	-	[k]
		-	5	-	-	-	-	-	-	-	[[0]
		-	-	1 f/cc	-	-	-	-	-	-	[m]
	QC 12/2012	-	-	1 f/cc	-	-	-	-	-	-	[n]
		-	10	-	-	-	-	-	-	-	[o]
crystalline silica non-respirable	US ACGIH 3/2012	-	0.025	-	-	-	-	-	-	-	[p]
	BC 4/2012	-	0.025	-	-	-	-	-	-	-	[b]
	ON 1/2013	-	0.1	-	-	-	-	-	-	-	[c]
Niamballa a sanatira	QC 12/2012	[-	0.1	-	-	-	-	-	-	-	[e]
Nepheline syenite	ON 1/2013	-	10	-	-	-	-	-	-	-	[q]

Form: [a]Respirable particulate [b]Respirable [c]Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size–selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 μm at 50 per cent collection efficiency. [d]The value is for particulate matter containing no asbestos and < 1 per cent crystalline silica. [e]Respirable dust. [f]Inhalable fraction [g]Respirable fibers: length greater than 5 uM; aspect ratio equal to or greater than 3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective) phase contrast illumination. [h]Fibres [i]Fibres, total particulate [j]Inhalable [k]Fiber [l]Inhalable fraction: means that size fraction of the airborne particulate deposited anywhere in the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the ACGIH particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 100 μm at 50 per cent collection efficiency. [m]Respirable fibres: length > 5μm; aspect ratio ≥3:1, as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination. [n]RESPIRABLE FIBRES (other than respirable asbestos fibres): Objects, other than respirable asbestos fibres, longer than 5 μm, having a diameter of less than 3 μm and a ratio of length to diameter of more than 3:1. [o]Total dust. [p]Respirable fraction [q]Total dust

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 8. Exposure controls/personal protection

Respiratory protection Use a properly fitted, particulate filter respirator complying with an approved standard if

a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working

limits of the selected respirator.

Skin protection

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

Body protection Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Eye/face protection Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Section 9. Physical and chemical properties

Physical state Solid.

ColorDark grey. -BlackOdorPungent. [Strong]Odor thresholdNot available.pHNot available.

Melting pointNot available.Boiling pointNot available.

Flash point Closed cup: >93.3°C (>199.9°F) [Setaflash.] [Product does not sustain combustion.]

Evaporation rate Not available.

Flammability (solid, gas) Flammable in the presence of the following materials or conditions: open flames, sparks

and static discharge.

Lower and upper explosive

(flammable) limits

Not available.

Vapor pressure Not available.
Vapor density Not available.

Relative density 2.247

Solubility

Solubility in water

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

>200°C (>392°F)

Not available.

Section 10. Stability and reactivity

ReactivityNo specific test data related to reactivity available for this product or its ingredients.

Chemical stability The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

No specific data.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 microliters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-

Sensitization

No specific data.

Mutagenicity

No specific data.

Carcinogenicity

No specific data.

Classification

Product/ingredient name	OSHA	IARC	NTP
crystalline silica non- respirable	-	1	Known to be a human carcinogen.

Reproductive toxicity

No specific data.

Teratogenicity

No specific data.

Specific target organ toxicity (single exposure)

No specific data.

Specific target organ toxicity (repeated exposure)

No specific data.

Section 11. Toxicological information

Aspiration hazard

No specific data.

Information on the likely

routes of exposure

Not available.

Potential acute health effects

Eye contact Causes serious eye irritation.

Inhalation No known significant effects or critical hazards.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Ingestion Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation No specific data.

Skin contact Adverse symptoms may include the following:

irritation redness

Ingestion No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

Long term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

Potential chronic health effects

No specific data.

General Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

No specific data.

Section 12. Ecological information

Toxicity

No specific data.

Persistence and degradability

No specific data.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	2.64 to 3.78	31	low

Mobility in soil

Soil/water partition coefficient (K_{oc})

Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification

Not available.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN Number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Section 14. Transport information

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

United States

U.S. Federal regulations TSCA 8(a) PAIR: Siloxanes and Silicones, di-Me, reaction products with silica

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs) Not listed

Clean Air Act Section 602

Class I Substances

Not listed

Clean Air Act Section 602

Not listed

Class II Substances

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ Not applicable.

SARA 311/312

Classification Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	(acute) health	Delayed (chronic) health hazard
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	10 - 30	No.	No.	No.	Yes.	No.
crystalline silica non-respirable	0.1 - 1	No.	No.	No.	No.	Yes.

State regulations

Massachusetts The following components are listed: SOAPSTONE; MINERAL WOOL FIBER

New York None of the components are listed.

New Jersey The following components are listed: SOAPSTONE; SILICA, QUARTZ; QUARTZ

(SiO2); FERROSILICON; FERROCERIUM

Pennsylvania The following components are listed: SOAPSTONE DUST; QUARTZ (SIO2)

Minnesota Hazardous

Substances

None of the components are listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 15. Regulatory information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Talc , not containing asbestiform fibres crystalline silica non-respirable carbon black non-respirable	Yes.	No. No. No.	No.	No. No. No.

Canada

WHMIS (Canada) Class D-1B: Material causing immediate and serious toxic effects (Toxic).

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canadian NPRI
None of the components are listed.

CEPA Toxic substances
None of the components are listed.

All components are listed or exempted.

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

International regulations

International lists Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined.

Japan inventory: Not determined. **Korea inventory**: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.

Substances of very high concern

None of the components are listed.

Section 16. Other information

Key to abbreviations ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References Not available.

▼ Indicates information that has changed from previously issued version.

Notice to reader

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Distributed by:



Material Safety Data Sheet MSDS Number: 120105

Product: Stop It® Pipe Repair Tape Print Date:

Product Code: IPI 786748 Revision Date: January 5 , 2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Stop It® Pipe Repair Tape

Product Use Description: Pipe Leak Repair and Rehabilitation

Company: InduMar Products Inc.

3355 West Alabama, Suite 110

Houston, Texas 77098

Telephone: 713-977-4100 **Fax:** 713-977-4164

Emergency/Hazmat Phone: CHEMTREC: 1-800-262-8200

2. HARZARDS IDENTIFICATION

EMERGENCY OVERVIEWS

Color: White/Yellowish, also Black (uncured product) **Physical State**: Tacky Resin on a Fiberglass Substrate

Odor: Very Slight

Hazards of Product: No unusual fire or explosive hazards

OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

POTENTIAL HEALTH EFFECTS

RESIN SYSTEM: Irritating to eyes, skin and respiratory system.

EYE CONTACT: May cause very slight, temporary corneal damage.

SKIN CONTACT: May stick to skin and cause irritation on removal. May cause allergic reaction in susceptible individuals.

SKIN ABSORPTION: Not applicable

INGESTION: Small amounts swallowed incidental to normal handling are not likely to cause injury.

INHALATION: At room temperature vapors are minimal. May cause sensation by inhalation. Very low concentrations may cause asthmatic signs and symptoms in hypersensitive people.

TERATOLOGY (BIRTH DEFECT) INFORMATION: Not applicable

REPRODUCTION INFORMATION: Not applicable

Material Safety Data Sheet

Product: Stop It® Pipe Repair Tape

Product Code: IPI786748 Revision Date: January 5, 2012

MSDS Number: 120105

Print Date

3. COMPOSITION INFORMATION

Ingredients	CAS No.	Percent	Exposure Limits
Fiber Glass	65997-17-3	48 - 52	
4,4' – Diphenylmethane diisocyanate.	101-68-8	34 - 38	8 hour time weighted average (TWA) 0.005
Amine catalyst	6425-39-4	1-5	
Methanesulfonic acid	75-75-2	<1	
Ingredients not precisely idenfied (including Polyethlene glycols) are proprietary and non-hazardous.		<12	

4. FIRST AID MEASURES

EYES: Flush eyes immediately and thoroughly with flowing water for 15 minutes. If effects occur, consult a physician, preferably an ophthalmologist.

SKIN CONTACT: Remove from skin with alcohol based hand sanitizer. Wash skin with plenty of soap and water.

INGESTION: If swallowed seek medical attention. Drink plenty of water. Do not induce vomiting. Seek medical attention. Keep out of reach of children.

INHALATION: Provide fresh air. Give oxygen in the event breathing becomes difficult. Seek medical attention

NOTE TO PHYSICIAN: Consider additional thorough skin wash with mild, nonabrasive soap and plenty of warm water for at least fifteen minutes.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: CO2, DRY CHEMICAL OR FOAM

FIRE FIGHTING PROCEDURES: Respiratory equipment should be worn to avoid inhalation of concentrated vapors. Fire Fighters and others who may be exposed to the products of combustion should be equipped with NIOSH approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

SPILLS: Dispose of in normal manner in accordance to all applicable state, federal, and local laws. Not a hazardous waste.

Material Safety Data Sheet

Product: Stop It® Pipe Repair Tape

MSDS Number: 120105

Print Date

Product: Stop It® Pipe Repair Tape Product Code: IPI786748

Revision Date: January 5, 2012

7. HANDLING AND STORAGE

GENERAL HANDLING: Avoid contact with skin or clothing.

STORAGE: Shelf Life: 2 years from date of purchase.

Temperature: Optimum $40 - 80^{\circ}$ F/4-20° C Storage: Store in cool, dry, well –ventilated area.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE LIMITS

LIMIT VALUES FOR WORKPLACE AIR: The UK Health and Safety Executive has established a maximum exposure limit, expressed as isocyanate, of 0.02mg/m³ 8 hour TWA, 0.07mg/m³ 15 min STEIL. National guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapors of this product.

PERSONAL PROTECTION

EYE PROTECTION: Avoid contact; Protective glasses are always recommended.

SKIN PROTECTION: Rubber or plastic gloves should be worn to protect skin.

RESPIRATORY PROTECTION: Not needed in normal application. In case of needed air supply mask or respirator with canister for organic vapors (type cc).

INGESTION: Keep mouth closed.

ENGINEERING CONTROLS: Not applicable.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Tacky Resin on a Fiberglass Substrate **COLOR:** White/Yellowish, also Black (Uncured product)

ODOR: Very slight

<u>VAPOR PRESSURE</u>: Resin: 0.0002mm Hg@24°C <u>BOILING POINT</u>: Resin decomposed > 200°C

SPECIFIC GRAVITY: Resin: 1.133 **FREEZING POINT:** Not applicable **MELTING POINT:** Resin only: <15°C

SOLUBILITY IN WATER: Insoluble in water, reacts, evolution of CO₂

pH: Unknown

Material Safety Data Sheet

Product: Stop It® Pipe Repair Tape

Product Code: IPI786748 Revision Date: January 5, 2012

MSDS Number: 120105

Print Date

10. STABILITY AND REACTIVITY

STABILITY/INSTABILITY: Stable under recommended storage conditions. See Storage, Section 7.

HAZARDOUS DECOMPOSITION PRODUCTS: Moisture contamination may form CO2 gas pressure.

HAZARDOUS POLYMERIZATION: Will not occur by itself.

THERMAL DECOMPOSITON: Carbon dioxide, aldehydes, acids, oxides of sulfur and nitrogen.

11. TOXICOLOGICAL INFORMATON

ACUTE TOXICITY

EYE: Not applicable

INGESTION: Not applicable

SKIN ABSORPTION: Not applicable

INHALATION: Not applicable

SUBCHRONIC: Not applicable

CHRONIC/CARCINOGENICITY: Not applicable

TERATOLOGY: Not applicable

REPRODUCTION: Not applicable

MUTAGENICITY: Not applicable

CHRONIC (CANCER) INFORMATION: Industrial experience in humans has not shown any links between MDI based products exposure and cancer.

12. ECOLOGICAL INFORMATION

<u>BIOACCUMULATION AND MOBILITY:</u> Limited environmental affect and in an aqueous medium resins are activated and cure to a chemically inert polyurea.

ECOTOXICOLOGY: Based largely or completely on information for similar material (s). Material is not expected to be classified as dangerous to aquatic organisms on an acute basis (LC50/EC50/IC50 greater than 100mg/L in most the most sensitive species tested).

CHEMICAL FATE INFORMATION: Not applicable

Material Safety Data Sheet

Product: Stop It® Pipe Repair Tape

Product Code: IPI786748

MSDS Number: 120105

Print Date

Revision Date: January 5, 2012

13. DISPOSAL CONSIDERATIONS

<u>DISPOSAL:</u> Incineration under approved, controlled conditions using incinerators suitable or designed for the disposal of hazardous chemical wastes, is the preferred method of disposal. Buried landfill waste disposal should be in accordance with local and national regulations.

14. TRANSPORT INFORMATION

D.O.T. Non-Bulk: Not Regulated

D.O.T. Bulk: Not Regulated

IMDG: Not Regulated

ICAO/IATA: Not Regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA HARZARD COMMUCNICATION STANDARD

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312.

Immediate *Acute) Health Hazard: No Delayed (Chronic) Health Hazard: No

Fire Hazard: No

Reactive Hazard: No Sudden Release of Pressure Hazard: No

<u>Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:</u> To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

<u>Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List:</u> This product does contain chemicals at levels which require reporting under this statute.

<u>California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)</u>: This product contains no listed substance d known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Material Safety Data Sheet

Product: Stop It® Pipe Repair Tape

MSDS Number: 120105

Print Date

Product Code: IPI786748 Revision Date: January 5, 2012

US. TOXIC SUBSTANCES CONTROL ACT

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

European Inventory of Existing Commercial Chemical Substances (EINECS)

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

CEPA – Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16. OTHER INFORMATION

HAZARD RATING SYSTEM

NFPA	Health	Physical Data	PPE
	1	0	0

Recommended Uses and Restrictions

Used in application such as: Pipe leak repair and then wall remediation. Adhesives. Civil engineering. Coil coatings. Marine and protective coatings. Potting and encapsulation.

Legend

N/A: Not Available

W/M: Weight or Measurement
OEL: Occupational Exposure Limit
STEL: Short Term Exposure Limit
TWA: Time Weighted Average

ACGIH: American Conference of Governmental Industrial Hygienists, Inc.

DOW IHG: Dow Industrial Hygiene Guideline

WEEL: Workplace Environmental Exposure Level

HAZ DES: Hazard Designation

Action Level: A value set by OSHA that is lower than the PEL which will trigger the need for activities such as

exposure monitoring and medical surveillance if exceeded.

InduMar Products, Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained and (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.