

## SAFETY DATA SHEET



88T Fib-R-Thane Trowelable, Part A, Hardener

Date Issued : 08/26/2015

SDS No : SCC-088TA

Date Revised : 06/28/2016

Revision No : 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 88T Fib-R-Thane Trowelable, Part A, Hardener**PRODUCT DESCRIPTION:** Fib-R-Thane Part A Hardener**PRODUCT CODE:** 88TGA**CHEMICAL FAMILY:** Aromatic Isocyanate**MANUFACTURER**

Sauereisen  
160 Gamma Drive  
Pittsburgh, PA 15238

**Emergency Contact:** John Kozak**Emergency Phone:** (800)444-8235**Alternate Contact:** Don Schubert**Customer Service:** 412 963-0303**E-Mail:** jakozak@sauereisen.com**24 HR. EMERGENCY TELEPHONE NUMBERS**

Poison Control Center (Medical):1-800-222-1222

CHEMTREC (US Transportation): 1-800-424-9300

CHEMTREC (Canada Transportation):1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Skin Irritation, Category 2  
Target Organ Toxicity (Single exposure), Category 3  
Acute Toxicity (Inhalation), Category 4  
Target Organ Toxicity (Repeated exposure), Category 1  
Skin Sensitization, Category 1  
Eye Irritation, Category 2B  
Respiratory Sensitization, Category 1

**GHS LABEL**

Exclamation  
mark



Health  
hazard

**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

H332: Harmful if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H320: Causes eye irritation.  
H372: Causes damage to respiratory tract through prolonged or repeated exposure if inhaled

**PRECAUTIONARY STATEMENTS****Prevention:**

P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P264: Wash ... thoroughly after handling.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P285: In case of inadequate ventilation wear respiratory protection.  
 P270: Do not eat, drink or smoke when using this product.  
 P271: Use only outdoors or in a well-ventilated area.  
 P272: Contaminated work clothing should not be allowed out of the workplace.

**Response:**

P302+P352: IF ON SKIN: Wash with plenty of water/...  
 P321: Specific treatment (see ... on this label).  
 P332+P313: If skin irritation occurs: Get medical advice/attention.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...  
 P314: Get medical advice/attention if you feel unwell.  
 P363: Wash contaminated clothing before reuse.

**Storage:**

P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P405: Store locked up.

**Disposal:**

P501: Dispose of contents/container in accordance with local/national regulations.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Methylenediphenyl Diisocyanate	15 - 25	26447-40-5
Methylene Bisphenyl Isocyanate	40 - 50	101-68-8
Polymeric Isocyanates	30 - 40	9016-87-9

**4. FIRST AID MEASURES**

**EYES:** Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline for at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

**SKIN:** Wash promptly with soap and water. If soaked through clothing, promptly remove clothing and wash skin. Launder clothing before reuse. Discard saturated shoes and leather clothing. For severe exposures, get under safety hower after removing clothing. Do not apply greases or ointments. Seek medical attention for incidents of significant exposure or if effects apparent.

**INGESTION:** If swallowed, do not induce vomiting. Give large quantities of water. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

**INHALATION:** If difficulty breathing, move to fresh at air once. For acute overexposure, give oxygen if breathing is difficult. Apply artificial respiration if breathing has stopped. Seek Medical attention. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Consult a physician should this occur.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Liquids, aerosols, or vapors are irritating and can cause tearing, reddening or swelling. If left untreated, corneal damage can occur and injury is slow to heal. Damage is usually reversible.

**SKIN:** Isocyanates react with skin proteins and mousture and can cause irritation which may include reddening, swelling, rash, scaling or blistering. Cured material is difficult to remove.

**SKIN ABSORPTION:** Prolonged contact with Isocyanates can cause skin sensitization. Animal tests have indicated that respiratory sensitization can result from skin contact. This data reinforces the need to prevent direct skin contact with MDI.

**INGESTION:** Can result in irritation and corrosive action in the mouth, stomach tissue, and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

**INHALATION:** MDI (Methylenediphenyl Diisocyanate) vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tracts ( nose, throat and lungs), causing runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function.

**ACUTE EFFECTS:** Persons with a preexisting, nonspecific bronchial hyper reactivity can respond to concentrations below the

TLV with similar symptoms as well as an asthma attack. Exposure well above the TLV may lead to bronchitis, bronchial spasms, and pulmonary edema ( fluid in the lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms ( fever, chills) has also been reported. These symptoms can be delayed up to several hours after exposure.

**CHRONIC EFFECTS:** As a result of previous repeated overexposures or a single large dose, certain individuals develop isocyanate sensitization (Chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath, or asthma attack, could be immediate or delayed up to several hours after exposure. Similar to many non specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure persists for weeks and in severe cases for years. Overexposure to isocyanates has also been reported to cause lung damage (including decrease in lung function) which may be permanent. Sensitization can either be temporary or permanent.

**NOTES TO PHYSICIAN:** Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Vapors could produce reversible corneal epithelial edema, impairing vision.

Skin: Compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn.

Ingestion: Treat symptomatically. Inducing vomiting is contraindicated because of the irritating nature of the compound.

Inhalation: Treat symptomatically. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Water, carbon dioxide, dry chemical, and foam.

**HAZARDOUS COMBUSTION PRODUCTS:** Combustion products may be toxic.

**EXPLOSION HAZARDS:** Not sensitive to mechanical impact or static discharge

**FIRE FIGHTING PROCEDURES:** Full emergency equipment including self contained breathing apparatus should be worn.

**FIRE EXPLOSION:** At temperatures above 400F (204 C) polymeric MDI can polymerize and decompose which can cause pressure build up in closed containers. Use cold water to cool fire exposed containers and prevent explosive rupture.

**SENSITIVE TO STATIC DISCHARGE:** None

**SENSITIVITY TO IMPACT:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide and carbon dioxide, nitrogen oxides, traces of hydrogen cyanide, MDI vapors and various complex hydrocarbons or aerosols.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILL:

Evacuate and ventilate spill area. Dike spill to prevent entry into water system. Absorb isocyanates with sawdust or other absorbent. Shovel into suitable unsealed containers. Transport to well-ventilated area (outside) and treat with neutralizing solution. Neutralizing solution: mixture of water (80%) with non-ionic surfactant tergitol tmn-10 (20%) or water (90%); concentrated ammonia (3-8%); detergent (2%). Add about 10 parts of neutralizer per part of isocyanate, with mixing. Allow to stand uncovered for 48 hours to let CO<sub>2</sub> escape. Clean-up: decontaminate floor with decontamination solution, letting stand for at least 15 minutes.

**LARGE SPILL:** Large quantities may be pumped into closed but not sealed containers for disposal.

**SPECIAL PROTECTIVE EQUIPMENT:** Wear full protective equipment, including respiratory equipment during clean-up.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid contact with eyes, skin, and clothing. For industrial use only! Harmful if inhaled. Do not take internally. May cause irritation. Do not eat, drink or smoke when using this product. Wear chemical splash goggles, gloves and protective clothing. Avoid high ambient temperatures and humidity. Wash thoroughly after handling.

**STORAGE:** Store in a cool, dry place.

Keep container closed when not in use.

Store away from direct heat and flame.

Keep away from food and drinking water.

DO NOT SMOKE where product is used or stored.

Store in a well-ventilated place.

### COMMENTS:

\*This material is designed to be pumped, not sprayed, MDI becomes more hazardous when atomized (sprayed). The hazard data is derived from tests performed when the material is sprayed and should be considered, but may not apply to pumping operations. Internal hygiene studies have found MDI

airborne levels to be less than 0.006 mg/m<sup>3</sup>.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	EXPOSURE LIMITS			
	Type		ppm	mg/m <sup>3</sup>
Methylenediphenyl Diisocyanate	OSHA PEL	TWA	.02	
	ACGIH TLV	TWA	.005	
Methylene Bisphenyl Isocyanate	ACGIH TLV	TWA	0.005	0.051

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Liquid chemical goggles. Vapor resistant goggles should be worn if contact lenses are in use. In a splash hazard environment, chemical goggles should be used in combination with a full face shield.

**SKIN:** Suitable protective gloves (neoprene, butyl rubber, or viton). Clothing should be clean, long-sleeved workclothes. Synthetic apron. Boots. Wash thoroughly before eating, smoking, applying cosmetics, etc. Thoroughly launder work clothes before reuse. Safety shower nearby.

**RESPIRATORY:** Concentrations greater than TLV can occur when MDI is used in a poorly ventilated area. In such cases, or whenever concentrations of MDI exceed the TLV, respiratory protection must be worn. A supplied air respirator or a positive pressure self-contained breathing apparatus is recommended. In situations where MDI is not sprayed or heated and a supplied air or self-contained apparatus is unavailable or its use impractical, at least an air purifying respirator equipped with an organic cartridge and a particulate filter must be worn. However, this should be permitted only for short periods of time (less than one hour) at relatively low concentrations (at or near the TLV). However, due to the poor warning properties of MDI, proper fit and timely replacement of filter elements must be insured. Observe OSHA Regulations for respirator usage (29 CFR Part 1910.134).

**WORK HYGIENIC PRACTICES:** Wash thoroughly after handling. Safety shower and eyewash station should be within direct access. Keep containers closed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Musty

**ODOR THRESHOLD:** Not Available

**COLOR:** Dark brown

**pH:** Not Established

**PERCENT VOLATILE:** Negligible

**FLASH POINT AND METHOD:** (390°F)

**FLAMMABLE LIMITS:** NE to NE

**VAPOR PRESSURE:** Negligible

**BOILING POINT:** (406°F)

**FREEZING POINT:** < (32°F)

**MELTING POINT:** (32°F)

**SOLUBILITY IN WATER:** Insoluble

**EVAPORATION RATE:** NA = Not Applicable

**SPECIFIC GRAVITY:** 1.24

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Yes

**HAZARDOUS POLYMERIZATION:** May occur. Conditions to avoid: moisture, and other isocyanate reactive materials or excessive temperatures above 400F may cause polymerization/

**STABILITY:** Stable under normal conditions of use and storage.

**CONDITIONS TO AVOID:** Contamination with water and high temperatures.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, nitrogen oxides, traces of hydrogen cyanide, MDI vapors and various complex hydrocarbons/

**INCOMPATIBLE MATERIALS:** (Materials to Avoid) water, amines, strong bases and alcohols. Will cause some corrosion to copper alloys and aluminum.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

**DERMAL LD<sub>50</sub>:** > 9400 mg/kg (rabbit)

**ORAL LD<sub>50</sub>:** > 2000 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** 370 -490 ppm / 4 hours (rat)

**SERIOUS EYE DAMAGE/IRRITATION:** Eye, Skin and Inhalation Irritant.

**RESPIRATORY OR SKIN SENSITISATION:** Skin and Respiratory sensitizer.

**GERM CELL MUTAGENICITY:** Monomeric MDI is positive in the Ames assay ( with hepatic microsomal activation). However, it was negative in an invivo-invivo micronucleus assay.

**REPRODUCTIVE TOXICITY:** No Data Available

**GENERAL COMMENTS:** The International Isocyanate Institute is sponsoring a lifetime inhalation study on polymeric MDI in rats. This study is currently underway.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available. Contact Env. Dept.

**BIOACCUMULATION/ACCUMULATION:** No data available. Contact Env. Dept.

**AQUATIC TOXICITY (ACUTE):** LC 50, 24 hours greater than 500 mg/L for daphnia magna, limnea stagnalis and zebra fish. for both polymeric and monomeric MDI.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Material should be disposed of as hazardous waste in accordance with Federal, state and local environmental regulations. Dispose of containers with any amount of liquid material as hazardous waste. Dilution followed by incineration is the preferred disposal method. Dilute 10:1 with a clean compatible and combustible solvent, e.g. #2 fuel oil or mineral oil, to reduce reactivity hazards during incineration, handling and transportation.

**EMPTY CONTAINER:** Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not Regulated

**TECHNICAL NAME:** NA = Not Applicable

**PRIMARY HAZARD CLASS/DIVISION:** Not Regulated

**UN/NA NUMBER:** NA

**PACKING GROUP:** NA

## 15. REGULATORY INFORMATION

### UNITED STATES

#### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

S3/9/14: Keep in a cool, well-ventilated place away from...

See section 10 for list of incompatible materials

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S49: Keep only in the original container.

### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Acute. Chronic.

**313 REPORTABLE INGREDIENTS:** There are no listed chemicals above detection limits in this compound.

#### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Methylene Bisphenyl Isocyanate	40 - 50	101-68-8
Polymeric Isocyanates	30 - 40	9016-87-9

#### TITLE III NOTES:

4,4'-Diphenylmethane Diisocyanate CAS-No 101-68-8

Polymeric Diphenylmethane Diisocyanate CAS 9016-87-9

### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Methylene Bisphenyl Isocyanate	40 - 50	5,000

### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Methylenediphenyl Diisocyanate	26447-40-5
Methylene Bisphenyl Isocyanate	101-68-8
Polymeric Isocyanates	9016-87-9

### REGULATIONS

#### STATE REGULATIONS:

Massachusetts Right To Know Components

4,4'-Diphenylmethane Diisocyanate CAS-No 101-68-8

Polymeric Diphenylmethane Diisocyanate CAS 9016-87-9

Diphenylmethane Diisocyanate Mixed Isomers CAS26447-40-5

New Jersey Right To Know Components

4,4'-Diphenylmethane Diisocyanate CAS-No 101-68-8

Polymeric Diphenylmethane Diisocyanate CAS 9016-87-9

**CALIFORNIA PROPOSITION 65:** Known to the State of California to cause cancer or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Act of 1986".

It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low level prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of the hazardous / carcinogenic ingredients listed elsewhere in the SDS comply with State of California regulations.

### CANADA

**WHMIS HAZARD SYMBOL AND CLASSIFICATION**

Toxic

Combustible  
Liquid

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

S3/9/14: Keep in a cool, well-ventilated place away from...

See section 10 for list of incompatible materials

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S49: Keep only in the original container.

**WHMIS CLASS:** Class D, Division 2, Subdivision B: Materials cause other toxic effects, toxic material.

**DOMESTIC SUBSTANCE LIST (INVENTORY):** Components included on inventory

**16. OTHER INFORMATION**

**PREPARED BY:** John A Kozak     **Date Revised:** 06/28/2016

**REVISION SUMMARY:** This SDS replaces the 08/24/2015 SDS. Revised: **Section 10: STABILITY.**

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>3</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>1</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	<b>H</b>