

Safety Data Sheet

Issue Date: 06/21/2018

ITW Insulation Systems encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

## 1. Product and Company Identification

#### **Product Name**

TRYMER<sup>™</sup> 2000XP Rigid Polyisocyanurate Insulation

#### COMPANY IDENTIFICATION

ITW Insulation Systems 1370 East 40<sup>th</sup> Street Building 7, Suite 1 Houston, TX 77022-4101 USA

Customer Information Number 1-800-231-1024

#### **Recommended Uses and Restrictions**

Thermal insulation for industrial and commercial use.

## 2. Hazards Identification

#### **Emergency Overview**

Color: Tan

Physical State: Bun/billet

Odor: Odorless

Hazards of product:

Toxic fumes may be released in fire situations.

#### **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

**Eye Contact:** Solid or dust may cause irritation or corneal injury due to mechanical action. Fumes/vapor released during thermal operations such as hot-wire cutting may cause eye irritation.

Skin Contact: Essentially nonirritating to skin. Mechanical injury only.

Skin Absorption: Skin absorption is unlikely due to physical properties.

**Inhalation:** Dust may cause irritation to upper respiratory tract (nose and throat). Fumes or dusts generated from cutting or grinding operations may cause irritation of the upper respiratory tract and lungs.

Concentrations of the blowing agents anticipated incidental to proper handling are expected to be well below those which cause acute inhalation effects and below exposure guidelines.

**Ingestion:** Swallowing is unlikely because of the physical state. Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking or blockage of the digestive tract if swallowed.

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## 3. Composition Information

#### Component

Modified Polyisocyanurate Rigid Cellular Polymer Hydrocarbon blowing agent(s) Tris(1-chloro-2-propyl) phosphate

#### CAS # Not applicable Not applicable 13674-84-5

**Amount** ≥85.0% ≤10.0% ≤5.0%

## 4. First-Aid Measures

**Eye Contact:** Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Seek first aid or medical attention as needed.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

**Ingestion:** If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

**Notes to Physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. Fire Fighting Measures

**Extinguishing Media:** Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. **Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance. **Unusual Fire and Explosion Hazards:** When product is stored in closed containers, a flammable atmosphere can develop. Mechanical cutting, grinding or sawing can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate. Rapid bursting of a multitude of cells such as might occur during compaction of product waste for disposal will release a flammable blowing agent which can lead to the development of a flammable atmosphere in inadequately vented equipment. This product contains a flame retardant to inhibit accidental ignition from small fire sources. For more information, contact ITW Insulation Systems. Dense smoke is emitted when burned without sufficient oxygen.

**Hazardous Combustion Products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. In smoldering or flaming conditions, carbon monoxide, carbon dioxide and carbon are generated. Combustion products may include and are not limited to: Nitrogen oxides. Combustion products may include trace amounts of: Hydrogen cyanide. Hydrogen Halides. Aromatic hydrocarbons.

## 6. Accidental Release Measures

Steps to be Taken if Material is Released or Spilled: Contain spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

**Personal Precautions:** Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental Precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or ground water. See Section 12, Ecological Information.

## 7. Handling and Storage

#### General Handling

This material is combustible and should not be exposed to flame or other ignition sources. Refer to Exposure Controls and Personal Protection, Section 8 of the SDS. No smoking, open flames or sources of ignition in handling and storage area. Fabrication methods which involve cutting into this product may release the blowing agent(s) remaining in the cells. Provide adequate ventilation to assure localized concentrations in release areas are maintained below the lower flammable limit.

#### **Other Precautions**

Good housekeeping and controlling of dusts are necessary for safe handling of product.

#### Storage

Keep in a cool, well-ventilated place. Minimize sources of ignition, such as static build-up, heat, spark or flame. Flammable vapors may accumulate in some storage situations. During shipment, storage, installation, and use, this material should not be exposed to flame or other ignition sources.

## 8. Exposure Controls / Personal Protection

#### Exposure Limits

Component	List	Туре	Value	
Cyclopentane (8Cl, 9Cl)	ACGIH	TWA	600 ppm	
Isopentane	ACGIH	TWA	600 ppm	

Concentrations of the blowing agents anticipated incidental to proper handling are expected to be well below those which cause acute inhalation effects and below exposure guidelines.

#### **Personal Protection**

**Eye/Face Protection:** Eye protection should not be necessary. For fabrication operations safety glasses are recommended. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin Protection: No precautions other than clean body-covering clothing should be needed. Hand protection: Use gloves to protect from mechanical injury. Selection of gloves will depend on the task. Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty or misty atmospheres, use an approved particulate respirator. The following should be effective types of airpurifying respirators: Particulate filter.

Ingestion: No precautions necessary due to the physical properties of the material.

Bun/billet

#### **Engineering Controls**

**Ventilation:** Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

## 9. Physical and Chemical Properties

Physical State
Color
Odor
Flash Point - Closed Cup
Flammable Limits In Air

Autoignition Temperature

Tan Odorless Not applicable **Lower**: Not applicable **Upper**: Not applicable 490 ℃ (914 ℉) *ASTM D1929* 

Yapor Pressure Not applicable   Boiling Point (760 mmHg) Not applicable			
Vapor Density (air = 1)			
Specific Gravity (H2O = 1)	0.02 - 0.05 <i>Estimated</i>		
Freezing Point	Not applicable		
Melting Point	>150 °C (>302 °F) Estimated, Decomposes		
Solubility in Water (by weight) Insoluble in water			
рН	Not applicable		
Kinematic Viscosity	Not applicable		

## **10. Stability and Reactivity**

#### Stability/Instability

Thermally stable at typical use temperatures.

#### Conditions to Avoid

Avoid temperatures above  $150 \,^{\circ}$ C ( $302 \,^{\circ}$ F). Exposure to elevated temperatures can cause product to decompose. Avoid direct sunlight.

#### **Incompatible Materials**

Avoid contact with strong oxidizers.

#### **Hazardous Polymerization**

Will not occur.

#### **Thermal Decomposition**

Decomposition products depend upon temperature, air supply and the presence of other materials. Toxic gases are released during decomposition.

### **11. Toxicological Information**

#### **Repeated Dose Toxicity**

Repeated exposures to dusts of this material are not anticipated to result in systemic toxicity or permanent lung injury; however, excessive exposures may cause less severe respiratory effects.

### **12. Ecological Information**

#### CHEMICAL FATE

#### **Movement & Partitioning**

No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is expected to float.

#### Persistence and Degradability

Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

#### ECOTOXICITY

Not expected to be acutely toxic to aquatic organisms.

## **13. Disposal Considerations**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. ITW HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Landfill. Incinerator or other thermal destruction device. As a service to its customers, ITW Insulation Systems can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone ITW's Customer Information Group at 1-800-231-1024 for further details.

### 14. Transport Information

DOT Non-Bulk NOT REGULATED

DOT Bulk NOT REGULATED

IMDG NOT REGULATED

# 

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 Hazard Communication Standard**

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

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

# Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

# Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

Hydrocarbon blowing agent(s)	Not applicable	≤10.0%	

# Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Special Hazardous Substances List

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

#### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances 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.

#### Toxic Substances Control Act (TSCA)

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

#### **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

#### Revision

Revision Date: 06/21/2018

#### Legend

TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists

ITW Insulation Systems urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this 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 SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.