

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08 August 2018 Revision date: 08 August 2018 Version: 1.0

### **SECTION 1: Identification**

Identification

: Substance Product form Trade name : Fire Barrier Foam

Chemical name : Isocyanic acid, polymethylenepolyphenylene ester

CAS-No. : 9016-87-9 Product code : US110B Formula : Unspecified

: Polymethylene polyphenylene isocyanate / Polymeric diphenylmethane diisocyanate / Svnonvms

Polymeric MDI / Polymethylene polyphenyl isocyanate / Polymethylenepolyphenyl isocyanate / Diphenylmethane diisocyanate / Polymethylene polyphenylisocyanate / Polymeric methane

diphenyl diisocyanate / Isocyanuric acid polymethylene polyphenyl isocyanate /

Polymethylenepolyphenylene isocyanate / Methylene diphenyl diisocyanate (polymeric) / PMDI

/ PAPI / Methylene bisphenyl diisocyanate, polymer / Diphenylmethane diisocyanate prepolymerized / Polymeric methylene diphenyl diisocyanate / Polymethylenepolyphenyl polyisocyanate / Polymethyl polyphenyl polyisocyanate / Diphenylmethanediisocyanate

#### Recommended use and restrictions on use

Use of the substance/mixture : Fill, Void Or Cavity Materials

### **Supplier**

International Fireproof Technology, Inc. 17528 Von Karman Ave. Irvine, CA 92614 T 949-975-8588 ptp@painttoprotect.com

### **Emergency telephone number**

**Emergency number** : CHEMTREC 1-800-424-9300

### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

### **GHS-US** classification

Harmful if inhaled Acute toxicity (inhalation) Category 4 Skin corrosion/irritation Category 2 Causes skin irritation Serious eye damage/eye irritation Category 2 Causes serious eye irritation

Respiratory sensitization, Category 1 May cause an allergy or asthma symptoms or breathing difficulties if inhaled

Skin sensitization, Category 1 May cause an allergic skin reaction Carcinogenicity Category 2 Suspected of causing cancer Specific target organ toxicity (single exposure) Category 3 May cause respiratory irritation

Specific target organ toxicity (repeated exposure) May cause damage to organs (respiratory system) through prolonged or repeated exposure

(Inhalation) Category 2

#### **GHS** Label elements, including precautionary statements

#### **GHS-US** labeling

Hazard pictograms (GHS-US)







Signal word (GHS-US) : Danger

Hazard statements (GHS-US) Causes skin irritation

May cause an allergic skin reaction

Causes serious eye irritation

Fatal if inhaled

May cause an allergy or asthma symptoms or breathing difficulties if inhaled

May cause respiratory irritation Suspected of causing cancer

May cause damage to organs (respiratory system) through prolonged or repeated exposure

(Inhalation)

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Precautionary statements (GHS-US)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist, spray, vapors. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace

Wear eye protection, protective clothing, protective gloves. [In case of inadequate ventilation] wear respiratory protection.

If on skin: Wash with plenty of water

If inhaled: Remove person to fresh air and keep comfortable for breathing

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

If exposed or concerned: Get medical advice/attention.

Immediately call a POISON CENTER

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER

Take off contaminated clothing and wash it before reuse. Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation

#### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification

: Lachrymator.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Name	Product identifier	%	GHS-US classification
Isocyanic acid, polymethylenepolyphenylene ester (Main constituent)	(CAS-No.) 9016-87-9	100	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

First-aid measures after skin contact

First-aid measures after eye contact

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow victim to breathe fresh air. Allow the victim to rest. Call a physician immediately.

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Contaminated work clothing should not be allowed out of the workplace. Get medical advice/attention.

 Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Suspected of ca

: Suspected of causing cancer. May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).

Symptoms/effects after inhalation : Harmful if inhaled. May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation.

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Symptoms/effects after ingestion : May cause gastric irritation.

### Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### Specific hazards arising from the chemical

Fire hazard : On combustion, forms: carbon oxides (CO and CO2). Nitrogen oxides.

Explosion hazard : No direct explosion hazard.

Reactivity The product is non-reactive under normal conditions of use, storage and transport.

#### Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

: Do not enter fire area without proper protective equipment, including respiratory protection. Do Protection during firefighting

not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

: Do not breathe mist, spray, vapors. Stop leak if safe to do so. General measures

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment. **Emergency procedures** : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

: Ventilate area. **Emergency procedures** 

#### **Environmental precautions**

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### Methods and material for containment and cleaning up

Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public

waters.

#### Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

#### **SECTION 7: Handling and storage**

### **Precautions for safe handling**

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in

a well-ventilated area. Do not breathe mist, spray, vapors. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact

with skin and eyes. Wear recommended personal protective equipment.

: Do not eat, drink or smoke when using this product. Always wash hands after handling the Hygiene measures

product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good

industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

Storage conditions Store in original container. Keep container closed when not in use. Store locked up. Store in a

dry, cool and well-ventilated place.

Incompatible products : Water. Amines. Strong bases. Alcohol.

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### SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers

should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves. Dispose of protective gloves after use.

#### Eye protection:

Chemical goggles or safety glasses. Use splash goggles when eye contact due to splashing is possible

#### Skin and body protection:

Long sleeved protective clothing

#### Respiratory protection:

An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits

#### Other information:

Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : brown
Odor : characteristic
Odor threshold : No data available
pH : No data available

Melting point : < 0 °C

Freezing point : No data available

Boiling point :  $> 200 \, ^{\circ}\text{C}$ Flash point :  $> 204 \, ^{\circ}\text{C}$ 

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure : 0.01 Pa

Relative vapor density at 20 °C : No data available Relative density : No data available

Specific gravity / density : 1.1 - 1.3

Solubility : No data available
Log Pow : No data available

Auto-ignition temperature :  $> 600 \, ^{\circ}\text{C}$ Decomposition temperature :  $> 230 \, ^{\circ}\text{C}$ 

Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : No data available

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Explosive properties : No data available
Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

May polymerize on exposure to temperature rise.

#### 10.4. Conditions to avoid

Moisture. Overheating.

### 10.5. Incompatible materials

Water. Amines. Strong bases. alcohols.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. On combustion forms: Carbon monoxide. Carbon dioxide. Nitrogen oxides.

### **SECTION 11: Toxicological information**

11.1. li	nformation on	toxicolog	ical effects
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Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Inhalation: Harmful if inhaled.

Fire Barrier Foam (9016-87-9)		
LD50 oral rat	49 g/kg	
LD50 dermal rabbit	> 9.4 g/kg	
LC50 inhalation rat (mg/l)	490 mg/m³ (Exposure time: 4 h)	
Skin corrosion/irritation	: Causes skin irritation.	

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Suspected of causing cancer.

Fire Barrier Foam (9016-87-9)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity – single exposure : May cause respiratory irritation.

Specific target organ toxicity – repeated : May cause damage to organs (respiratory system) through prolonged or repeated exposure

exposure (Inhalation).

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Viscosity, kinematic : No data available

Likely routes of exposure : Inhalation. Ingestion. Skin and eye contact.

Symptoms/effects : Suspected of causing cancer. May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).

Symptoms/effects after inhalation : Harmful if inhaled. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May cause gastric irritation.

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### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

#### Fire Barrier Foam (9016-87-9)

Persistence and degradability Not established.

#### 12.3. Bioaccumulative potential

### Fire Barrier Foam (9016-87-9)

Bioaccumulative potential Not established

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

### Fire Barrier Foam (9016-87-9)

1990 Hazardous Air Pollutant (Clean Air Act) Yes

Other information : Avoid release to the environment.

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

### **Transportation of Dangerous Goods**

Not regulated

### Transport by sea

Not regulated

#### Air transport

Not regulated

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

### Fire Barrier Foam (9016-87-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

### 15.2. International regulations

#### **CANADA**

## Fire Barrier Foam (9016-87-9)

Listed on the Canadian DSL (Domestic Substances List)

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#### **EU-Regulations**

No additional information available

### **National regulations**

### Fire Barrier Foam (9016-87-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

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Revision date : 08 August 2018

Other information : None.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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