



## PRO-TECH PRODUCTS

### Safety Data Sheet

According to GHS

Foam A

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#### SECTION 1: Identification

##### Product identifier

Product name	Foam A
Substance name	Diphenylmethane Diisocyanate (MDI)

##### Supplier's details

Name	Pro-Tech Products
Address	3003 N. 73rd Street Scottsdale, AZ 85251 USA
Telephone	480-945-7303
Fax	480-945-8873
Website	WWW.Pro-TechProducts.com

##### Emergency phone number(s)

CHEMTREC: (800)-424-9300

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#### SECTION 2: Hazard identification

##### GHS Classification:

- Skin irritation, Category 2
- Acute toxicity, inhalation, Category 4
- Sensitization of respiratory airways, Category 1
- **Eye irritation, Category 2**
- Carcinogenicity, Category 2
- Sensitization of the skin, Category 1
- Specific target organ toxicity (repeated exposure), Category 2
- Specific target organ toxicity (single exposure), Category 3

##### GHS label elements, including precautionary statements

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### Pictogram



### Signal Word

Warning

### Hazard statement(s)

- May cause an allergic skin reaction.
- Cause skin irritation.
- Harmful if inhaled.
- Cause serious eye irritation.
- May cause respiratory irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause damage to organ through prolonged or repeated exposure.
- Suspected of causing cancer.

### Precautionary statement(s)

- Do not breathe dust/fume/gas/mist/vapors/spray.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Wear protective gloves/eye protection.face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF ON SKIN: Wash with plenty of soap and water.

### Other hazards which do not result in classification

Persons with respiratory conditions should avoid handling this product.

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## SECTION 3: Composition/information on ingredients

### Mixtures

Substance name                                      Diphenylmethane Diisocyanate (MDI)

### Hazardous components

#### 1. Diphenylmethane-4,4'- diisocyanate (MDI)

Concentration                                      38.0%  
CAS no.    101-68-8

#### 2. MDI Mixed Isomers

Concentration                                      < 10.0%  
CAS no.    26447-40-5

#### 3. P-MDI

Concentration                                      < 55.0%  
CAS no.    9016-87-9

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

### **Description of necessary first-aid measures**

General advice	Remove contaminated clothing
If inhaled	Remove affected individual to fresh air and keep person calm. Assist in breathing if necessary. Immediate medical attention required.
In case of skin contact	Wash affected areas with soap and water. Seek medical attention for irritation.
In case of eye contact	Rinse for at least 15 minutes with water. Immediate medical attention required.
If swallowed	Rinse mouth and drink plenty of water. Do not induce vomiting. Immediate medical attention required.

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

### **Suitable extinguishing media**

Carbon dioxide, foam, dry powder, water spray

### **Specific hazards arising from the chemical**

Burning releases CO, CO<sub>2</sub>, oxides of nitrogen, isocyanate vapors and traces of hydrogen cyanide

### **Special protective actions for fire-fighters**

Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

### **Further information**

Unsuitable extinguishing media: High volume water jet

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

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

Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

### **Environmental precautions**

Do not discharge into drains/surface waters/groundwater

### **Methods and materials for containment and cleaning up**

Remove mechanically; cover remainder with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to waste container and do not seal (evolution of CO<sub>2</sub>?). Keep damp in a safe ventilated area for several days.

### **Reference to other sections**

Spill area can be decontaminated with the following recommended decontamination

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solution:

Decontamination Solution #1: 8-10% sodium carbonate and 2% liquid soap in water

Decontamination Solution #2: Liquid/yellow soap (potassium soap with ~15% anionic surfactant): 20 ml; Water: 700 ml;

Polyethylene glycol (PEG 400): 350 ml

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## SECTION 7: Handling and storage

### Precautions for safe handling

Provide sufficient air exchange and/or exhaust in work rooms. Occupational exposure limits should not be exceeded (refer to Section 8). Contact with skin and eyes and inhalation of vapors must be avoided. Keep away from foodstuffs, drinks, and tobacco. Wash hands before breaks and at end of work.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed and protect against moisture. Segregate from bases. Store from 32°F – 110°F

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### 1. P-MDI

##### OSHA PEL

CLV 0.02ppm 0.2 mg/m<sup>3</sup>

#### 2. Diphenylmethane-4,4'- diisocyanate (MDI)

##### OSHA PEL

CLV 0.02ppm 0.2 mg/m<sup>3</sup>

### Individual protection measures, such as personal protective equipment (PPE)

#### Hand, eye, skin, body protection:

Chemical resistant protective gloves should be worn to prevent all skin contact. Wear eye/face protection. Wear suitable protective clothing

#### Respiratory protection

Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	Liquid
Odor	earthy, musty
Odor threshold	not established
pH	not established
Melting point/freezing point	N/A
Initial boiling point and boiling range	> 300°C
Flash point	>250°C
Evaporation rate	not established
Flammability (solid, gas)	N/A
Upper/lower flammability limits	N/A

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Upper/lower explosive limits	N/A
Vapor pressure	0.00016mmHg
Vapor density	not established
Relative density	1.24
Solubility(ies)	reacts with water
Partition coefficient: n-octanol/water	not established
Auto-ignition temperature	N/A
Decomposition temperature	not established

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## SECTION 10: Stability and reactivity

### Chemical stability

Polymerizes at about 200°C with evolution of CO<sub>2</sub>

### Possibility of hazardous reactions

Exothermic reaction with amines and alcohols; reacts with water forming CO<sub>2</sub>; in closed containers, risk of bursting owing to increase of pressure

### Conditions to avoid

Avoid moisture

### Incompatible materials

water, alcohols, strong bases

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

LC<sub>50</sub>: 490mg/kg , vapor, 4hr rat

#### Symptoms related to physical, chemical and toxicological characteristics

Minor skin irritation; asthma-like symptoms

#### Chronic toxicity

2 years, inhalation; NOAEL: 0.2mg/m<sup>3</sup>, (rat, Male/Female, 6hrs/day 5 days/week)

#### Likely routes of exposure

Skin, inhalation

#### Delayed and immediate effects and chronic effects from short and long-term exposure

Possible sensitization

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## SECTION 12: Ecological information

### Toxicity

LC<sub>0</sub>: >1,000mg/l (Zebra fish 96 hrs) LC<sub>0</sub>: >3,000mg.l (Killifish 96hrs)

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### Persistence and degradability

0%

### Bioaccumulative potential

Does not bioaccumulate

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## SECTION 13: Disposal considerations

### Waste Disposal

Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system. Do not burn empty drums or cut open with gas or an electric torch as toxic decomposition products may be liberated. Do not reuse empty containers.

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## SECTION 14: Transport information

### Land Transport

**DOT (US):** Not classified as dangerous good

China: Not classified as dangerous good

### Sea transport

**IMDG:** Not classified as dangerous good

### Air transport

**IATA/ICAO:** Not classified as dangerous good

### Further information:

DOT: This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ). Refer to Section 15 for the RQ of this product.

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

### Inventory Status:

TSCA listed

### US Regulations:

Not regulated

### US Superfund Amendments and Reauthorization Act (SARA) Title III section 313 information:

Methylene Bis Phenylisocyanate 101-68-5000lbs. See SDS- A Component (Same as Diphenylmethane diisocyanate (MDI) Polymeric Diphenylethane diisocyanate 9016-87-9 See SDS- A component.

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## SECTION 16: Other information

**SDS preparation date:** 6/15/15

### Important Notices

## **Safety Data Sheet**

### **Foam A**

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