

# MSDS Document

## Product BOSS® 334 Gun Foam - Minimal Expanding

### 1. Chemical Product and Company Identification

**Trade Name of this Product** BOSS® 334 Gun Foam - Minimal Expanding

**Synonyms:** 03866BR10

**MSDS ID** BOSS334

**Manufacturer**

Accumetric, LLC

350 Ring Road

Elizabethtown, KY 42701

**Phone Number**

(270) 769-3385

**Emergency Phone**

CHEMTREC (800) 424-9300

**Revision Date** 12/17/2009

### 2. Composition and Information on Ingredients

<b>Ingredient</b>	<b>CAS Number</b>	<b>Weight %</b>	<b>ACGIH TLV</b>	<b>PEL</b>	<b>STEL</b>
Polymeric diphenylmethane diisocyanate	9016-87-9	> 25 %	0.005 ppm	0.02 mg/m	
Isobutane	75-28-5	1% - 5%			
Propane	74-98-6	1% - 5%	1000 ppm	1000 ppm PEL	
Dimethyl ether	115-10-6	1% - 15%		400 ppm	

### 3. Hazard Identification

**Overview**

Extremely flammable.

Harmful by inhalation.

Irritating to eyes, respiratory systems and skin.

May cause sensitization by inhalation and skin contact.

**Acute Effects/Symptoms of Overexposure**

**EYE CONTACT**

Irritation of the eye tissue, lacrimation.

**INHALATION**

Dry/sore throat, coughing, irritation of respiratory tract, irritation of the nasal mucous membranes, runny nose.

Following symptoms may appear later: Inflammation of the respiratory tract, risk of lung

edema, respiratory difficulties.

#### SKIN CONTACT

Tingling/irritation of skin.

#### Chronic Effects/Symptoms of Overexposure

May cause sensitization by skin contact. May cause sensitization by inhalation. Contains substance with uncertain carcinogenic properties (polymethylenepolyphenylisocyanate).

The following may also occur with continuous exposure/contact:

Body temperature rise, tremor, feeling of weakness, headache, skin rash/inflammation, may stain the skin, dry skin, risk of pneumonia.

## 4. First Aid Information

#### Eye Contact

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

#### Ingestion

DO NOT induce vomiting. DO NOT attempt to give anything by mouth to an unconscious person. If individual is conscious, give water to dilute stomach contents. Get prompt medical attention.

#### Inhalation

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

#### Skin Contact

Rinse immediately with plenty of water. If irritation persists, seek medical attention.

## 5. Fire Fighting Measures

**Flash Point** < 32°F

#### Extinguishing Media

Carbon dioxide, BC powder, Polyvalent foam, Quantities of water

#### Unsuitable Extinguishing Media

None known

#### Special Exposure Hazards

On burning product releases toxic and corrosive gases/vapors: hydrogen chloride, carbon monoxide and carbon dioxide. Gas/vapor spreads at floor level, creating an ignition hazard. Gas/vapor flammable with air within explosion limits. Aerosol may explode when exposed to flame or heat.

#### Special Fire Fighting Procedures

Dilute toxic gases with water spray. Take account of toxic fire fighting water. Do not move the load if exposed to heat.

## 6. Accidental Release Measures

### Steps to be taken in case of spill or release

Observe all personal protection equipment recommendations. Allow product to solidify and remove it by mechanical means. Remove uncured foam with acetone. Use appropriate containment to avoid environmental contamination.

Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable.

## 7. Handling and Storage

### Handling

Observe very strict hygiene. Avoid contact with skin and eyes. In case of insufficient ventilation, keep naked flames/sparks away. Remove contaminated clothing immediately. Clean contaminated clothing before re-use.

### Storage

Keep out of direct sunlight. Keep away from heat sources, ignition sources, acids and bases.

Storage temperature: < 122F (50C)

## 8. Exposure Controls and Personal Protection

### Component Exposure Limits

Polymethylenepolyphenylisocyanate (9016-87-9)

TLV-TWA: --

TLV-STEL: --

TLV-Ceiling: --

Dimethyl ether (115-10-6)

TLV-TWA: --

TLV-STEL: --

TLV-Ceiling: --

Propane (74-98-6)

TLV-TWA: 2,500 ppm

TLV-STEL: --

TLV-Ceiling: --

Isobutane (75-28-5)

TLV-TWA: --

TLV-STEL: --

TLV-Ceiling: --

### Occupational Exposure Controls

Use only in well ventilated areas.

### **Eye Protection**

Use proper protection - safety glasses as a minimum.

### **Skin Protection**

Chemically resistant gloves and suitable protective clothing.

### **Respiratory Protection**

In case of insufficient ventilation, use respiratory protection with filter Type A.

## **9. Physical and Chemical Properties**

<b>Physical State</b>	Aerosol
<b>Specific Gravity</b>	0.996
<b>Density lbs/Gal.</b>	8.3120226
<b>Color/Appearance</b>	Variable in color
<b>Odor</b>	Characteristic
<b>pH</b>	Not determined
<b>Boiling/Cond. Point</b>	Not determined
<b>Melting/Freezing Point</b>	Not determined
<b>Solubility</b>	Insoluble in water
<b>Evaporation Rate</b>	Not determined
<b>VOC %</b>	18%
<b>Viscosity</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Vapor Pressure</b>	Not determined

### **Note**

The above information is not intended for use in preparing product specifications. Contact Accumetric LLC before writing specifications.

## **10. Stability and Reactivity**

### **Materials to Avoid**

Keep away from heat sources, ignition sources, acids, and bases.

### **Conditions to Avoid - Reactivity**

Unstable on exposure to heat.

### **Hazardous Decomposition Products**

On burning: release of toxic and corrosive gases/vapors: hydrogen chloride, carbon monoxide and carbon dioxide.

On heating: release of toxic /combustible gases/vapors (hydrogen cyanide).

May polymerize on exposure to temperature rise.

May polymerize with a lot of compounds, ex; (Strong) bases and amines.

Reacts violently with (some) acids/bases.

## 11. Toxicological Information

### Acute Toxicity

Polymethylenepolyphenylisocyanate (9016-87-9)

LD50 oral rat: > 10,000 mg/kg

LD50 dermal rabbit: > 5,000 mg/kg

LC50 inhalation rat: Not determined

Propane (74-98-6)

LD50 oral rat: Not determined

LD50 dermal rabbit: Not determined

LC50 inhalation rat: 513 mg/l/4 h

LC50 inhalation rat: 280,000 ppm/ 4 h

Isobutane (75-28-5)

LD50 oral rat: Not determined

LD50 dermal rabbit: Not determined

LC50 inhalation rat: 658 mg/l/4 h

### Chronic Toxicity

Polymethylenepolyphenylisocyanate (9016-87-9)

Carcinogenicity (MAK): Category 3B

Mutagenicity (MAK): Not Listed

Teratogenicity (MAK): Group -

IARC Classification: 3

Dimethyl Ether (115-10-6)

Carcinogenicity (MAK): Not Listed

Mutagenicity (MAK): Not Listed

Teratogenicity (MAK): Group D

IARC Classification: Not Listed

## 12. Ecological Information

### Ecotoxicity

No data available

### Mobility

Insoluble in water

### Persistence and Degradability

Biodegradation: Not determined

Water: No data available

Soil: Not determined

### Bioaccumulative Potential

Not established

### Other Adverse Effects

Effect on Ozone Layer: Not dangerous for the ozone layer (1999/45/EC)

Greenhouse Effect: No data available

Effect on Waste Water Purification: No data available

### 13. Disposal Considerations

#### Waste Disposal Method

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

This product is not known to be regulated under RCRA regulations, but contains SARA regulated substances. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local and state laws.

### 14. Transportation Information

#### DOT Road Shipment Information

Hazard Class: 2.1  
Identification Number: UN1950  
Packing Group: -  
Proper Shipping Name: AEROSOLS, flammable, n.o.s.  
Label: 2.1

#### Air Shipment (IATA)

ICAO/IATA Class: 2.1  
UN/ID Number: 1950  
Label: 2.1  
Packaging Group: -  
Proper Shipping Name: AEROSOLS, flammable, n.o.s.

#### Ocean Shipment (IMDG)

Hazard Class: 2.1  
UN Number: 1950  
Label: 2.1  
Packing Group: -  
EMS Number: 2-13  
Marine Pollutant: No

### 15. Regulatory Information

The contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### TSCA Status

All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

#### SARA Title III Section 302 Extremely Hazardous Substances

None

**SARA Title III Section 304 CERCLA Hazardous Substances**

None

**SARA Title III Section 313 Toxic Chemicals**

Polymeric diphenylmethane diisocyanate (9016-87-9)

## **16. Other Information**

**Disclaimer**

The data contained herein is based upon information that Accumetric LLC believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements to suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.