

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 1/3/2013

2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
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

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

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 or 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.