



# Safety Data Sheet

## BOSS® 338 Flexible Foam Gun Grade

### Section 1. Identification

Product Identifier BOSS® 338 Flexible Foam Gun Grade

Synonyms 33824

Manufacturer Stock Numbers 143137

Recommended use Refer to Technical Information

Uses advised against Refer to Technical Information

Manufacturer Contact

Address

Soudal  
350 Ring Road  
Elizabethtown, KY, 42701  
USA

Phone  
(270) 769-3385

Emergency Phone  
(800) 424-9300  
CHEMTREC

Fax  
(270) 765-2412

### Section 2. Hazards Identification

Classification

CARCINOGENICITY - Category 2  
EYE DAMAGE/IRRITATION - Category 2A  
FLAMMABLE AEROSOLS - Category 1  
GASES UNDER PRESSURE - Liquefied gas  
SENSITIZATION - RESPIRATORY - Category 1  
SENSITIZATION - SKIN - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3

Signal Word  
Pictogram

Danger



Hazard Statements

Causes serious eye irritation  
Contains gas under pressure; may explode if heated  
Extremely flammable aerosol  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May cause damage to organs through prolonged or repeated exposure (liver, thyroid gland).  
May cause respiratory irritation.  
Suspected of causing cancer.

Precautionary Statements

Response

Call a poison center or doctor if you feel unwell.  
If experiencing respiratory symptoms: Call a poison center or doctor.  
If exposed or concerned: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If medical advice is needed, have product container or label at hand.  
If on skin: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.  
Contaminated work clothing must not be allowed out of the workplace.  
Do not handle until all safety precautions have been read and understood.  
Do not spray on an open flame or other ignition source.  
Keep away from heat/sparks/open flame/hot surfaces - No smoking  
Obtain special instructions before use.  
Pressurized container: Do not pierce or burn, even after use.  
Use only outdoors or in a well-ventilated area.  
Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wear respiratory protection.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

Disposal

Dispose of contents/container in accordance with local, state and federal regulations.

Ingredients of unknown  
toxicity

0%

Hazards not Otherwise Classified

Additional Information None known

## Section 3. Ingredients

| CAS        | Ingredient Name                        | Weight % |
|------------|--|----------|
| 13674-84-5 | 2-Propanol, 1-chloro-, phosphate (3:1) | 1% - 25% |
| 74-98-6    | Propane                                | 1% - 10% |
| 75-28-5    | Isobutane                              | 1% - 10% |
| 115-10-6   | Dimethyl ether                         | 1% - 10% |
| 9016-87-9  | Polymeric diphenylmethane diisocyanate | > 25 %   |

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-Aid Measures

|                                   |  |
|-----------------------------------|--|
| Description of Necessary Measures | If exposed or concerned: Get medical advice/attention.   |
| Inhalation                        | Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  |
| Skin                              | Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.  |
| Eyes                              | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.   |
| Ingestion                         | Rinse mouth thoroughly with water. Do NOT induce vomiting. If swallowed, get medical attention.  |
| Most Important Symptoms/Effects   | Acute<br>May cause sore throat, coughing. May cause respiratory irritation. May cause irritation of mucous membranes, runny nose. Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.<br><br>Delayed<br>Suspected of causing cancer. May cause liver damage, May also cause damage to the thyroid gland. |

## Section 5. Fire Fighting Measures

|   |  |
|---|--|
| Suitable Extinguishing Media              | BC-powder, regular dry chemical, carbon dioxide  |
| Unsuitable Extinguishing Media            | None known   |
| Special Hazards Arising from the Chemical | Extremely flammable aerosol. Pressurized container: Do not pierce or burn, even after use. |

Hazardous Combustion Products

Oxides of carbon, Phosphorus oxides, hydrogen cyanide, hydrogen chloride. May polymerize when heated.

Advice for firefighters

Releases toxic and/or corrosive gases. May polymerize with evolution of heat.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Damaged cylinders should be handled only by specialists. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with water spray until well after the fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. ALWAYS stay away from tanks engulfed in fire.

Special Protective Equipment and

Wear personal protective clothing and equipment such as self-contained breathing apparatus (SCBA) for protection against possible exposure.

Precautions for Firefighters

## Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid heat, flames, sparks and other sources of ignition.

Methods and Materials for Containment and Cleaning Up

Allow spilled material to cool and solidify before attempting to clean up. Wash thoroughly after handling. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Do not direct water at spill or source of leak. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. If possible, turn leaking containers so that gas escapes rather than liquid. Prevent entry into waterways, sewers, basements, or confined areas. Allow substance to evaporate. Ventilate the area.

Environmental Precautions

Avoid release to the environment.

## Section 7. Handling and Storage

Precautions for Safe Handling

Keep away from heat/sparks/open flame/hot surfaces - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition sources. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wear respiratory protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Incompatible Materials

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. strong acids, strong bases, amines

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure

Ingredient Name

ACGIH TLV

OSHA PEL

STEL

## Limits

|   |                 |                        |             |
|---|-----------------|------------------------|-------------|
| 2-Propanol, 1-chloro-, phosphate (3:1)    | N/A             | N/A                    | N/A         |
| Propane                                   | 1000 ppm<br>TWA | 1000 ppm<br>PEL        | N/A         |
| Isobutane                                 | 1000 ppm        | N/A                    | 1000<br>ppm |
| Dimethyl ether                            | N/A             | 400 ppm                | N/A         |
| Polymeric diphenylmethane<br>diisocyanate | 0.005 ppm       | 0.02 mg/m <sup>3</sup> | N/A         |

## Personal Protective Equipment

Goggles, Gloves

## ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

## Engineering Controls

Use explosion-proof electrical/ventilating/lighting equipment. Keep away from heat/sparks/open flames/hot surfaces. Keep away from sources of ignition. - No smoking. Provide local exhaust ventilation system.

## Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection  
Wear safety goggles.

Skin Protection  
Wear appropriate chemical resistant clothing.

Respiratory Protection  
In case of inadequate ventilation wear respiratory protection.

Glove Recommendations  
Wear appropriate chemical resistant gloves.

## Section 9. Physical and Chemical Properties

|                                       |                        |
|---------------------------------------|------------------------|
| Physical State                        | Aerosol                |
| Color                                 | Champagne              |
| Odor                                  | Characteristic         |
| Odor Threshold                        | Not available          |
| Solubility                            | Insoluble in<br>water  |
| Partition coefficient Water/n-octanol | Not available          |
| VOC%                                  | 16% (by wt)<br>149 g/L |
| Viscosity                             | No data<br>available   |
| Specific Gravity                      | N/A                    |
| Density lbs/Gal                       | 0.9                    |
| Pounds per Cubic Foot                 | N/A                    |
| Flash Point                           | Not available          |

|                           |                             |
|---------------------------|-----------------------------|
| FP Method                 | N/A                         |
| pH                        | Not available               |
| Melting Point             | No data available           |
| Boiling Point             | No data available           |
| Boiling Range             | N/A                         |
| LEL                       | N/A                         |
| UEL                       | N/A                         |
| Evaporation Rate          | Not available               |
| Flammability              | Extremely flammable aerosol |
| Decomposition Temperature | Not available               |
| Auto-ignition Temperature | No data available           |
| Vapor Pressure            | No data available           |
| Vapor Density             | > 1                         |

**Note** The above information is not intended for use in preparing product specifications. Contact Soudal before writing specifications.

## Section 10. Stability and Reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | May be ignited by heat, sparks or flames.   |
| Chemical stability                 | Stable under normal conditions.   |
| Possibility of Hazardous Reactions | May polymerize when heated. Reacts with acids, bases.   |
| Conditions to Avoid                | Keep away from heat/sparks/open flame/hot surfaces - No smoking. Use only non-sparking tools. |
| Incompatible Materials             | strong acids, strong bases  |
| Hazardous decomposition products   | oxides of phosphorus, hydrogen chloride, oxides of carbon                                     |
| Thermal decomposition products     | hydrogen cyanide  |

## Section 11. Toxicological Information

|  |   |
|--|---|
| Information on Likely Routes of Exposure | Inhalation<br>May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.<br>May cause respiratory irritation. |
|  | Skin Contact<br>May cause allergic skin reaction.   |

Eye Contact  
Causes serious eye irritation.

Ingestion  
No information on significant adverse effects.

## Acute and Chronic Toxicity

Component Analysis - LD50/LC50  
The components of this material have been reviewed in various sources and the following selected endpoints are published:

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)  
Oral LD50 Rat 1500 mg/kg  
Dermal LD50 Rabbit >5000 mg/kg (no deaths occurred )  
Inhalation LC50 Rat >5.05 mg/L 4 h

Polymethylene polyphenylene isocyanate (9016-87-9)  
Oral LD50 Rat 49 g/kg  
Dermal LD50 Rabbit >9.4 g/kg  
Inhalation LC50 Rat 11 mg/L 4 h

Propane (74-98-6)  
Inhalation LC50 Rat >800000 ppm 15 min

Isobutane (75-28-5)  
Inhalation LC50 Rat 658 mg/L 4 h

Dimethyl ether (115-10-6)  
Inhalation LC50 Rat 164000 ppm 4 h

## Product Toxicity Data

Acute Toxicity Estimate  
Oral > 2000 mg/kg

Immediate Effects  
Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause respiratory irritation.

Delayed Effects  
Suspected of causing cancer. May cause liver damage. May also cause damage to the thyroid gland.

Irritation/Corrosivity Data  
Causes serious eye irritation. May cause respiratory irritation.

Respiratory Sensitization  
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

Dermal Sensitization  
May cause allergic skin reaction.

Germ Cell Mutagenicity  
No information available for the product.

Tumorigenic Data  
No information available for the product.

Reproductive Toxicity  
No information available for the product.

Aspiration hazard  
No information available for the product.

Component  
Carcinogenicity

Polymethylene polyphenylene isocyanate (9016-87-9)  
IARC  
Supplement 7 [1987] ; Monograph 19 [1979] (Group 3 (not classifiable))

Specific Target Organ  
Toxicity

DFG  
Category 4 (no significant contribution to human cancer)  
Single Exposure  
No target organs identified.

Medical Conditions  
Aggravated by Exposure

Repeated Exposure  
Liver, Thyroid gland  
No data available.

## Section 12. Ecological Information

Component Analysis -  
Aquatic Toxicity

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)  
Fish:  
LC50 96 h Brachydanio rerio 56.2 mg/L [static]; LC50 96 h Pimephales  
promelas 98 mg/L [static]; LC50 96 h Poecilia reticulata 30 mg/L [static]

Algae:  
EC50 72 h Desmodesmus subspicatus 45 mg/L IUCLID; EC50 96 h  
Pseudokirchneriella subcapitata 4 mg/L IUCLID

Invertebrate:  
EC50 48 h Daphnia magna 63 mg/L IUCLID

Persistence and  
Degradability

Dimethyl ether (115-10-6)  
Fish:  
LC50 96 h Poecilia reticulata >4.1 g/L [semi-static]

Bioaccumulative Potential

No information available for the product.

Mobility in Soil

No information available for the product.

Other Toxicity

No information available for the product.

## Section 13. Disposal



|                         |  |
|-------------------------|--|
| Disposal Methods        | Dispose of contents/container in accordance with local/regional/national /international regulations. |
| Component Waste Numbers | The US EPA has not published waste numbers for this product's components.                            |

## Section 14. Transport Information

|                                  |   |
|----------------------------------|---|
| UN Number                        | 1950  |
| UN Proper Shipping Name          | AEROSOLS  |
| DOT Classification               | Hazard Class: 2 Required Label(s): 2.1  |
| Packing Group                    | N/A   |
| IATA Information                 | Shipping Name: AEROSOLS, FLAMMABLE<br>Hazard Class: 2.1<br>UN#: UN1950<br>Required Label(s): 2.1  |
| IMDG Information                 | Shipping Name:AEROSOLS<br>Hazard Class: 2<br>UN#: UN1950<br>Required Label(s): 2  |
| TDG Information                  | Shipping Name:AEROSOLS<br>Hazard Class: 2.1<br>UN#: UN1950<br>Required Label(s): 2.1  |
| International Bulk Chemical Code | This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.<br>Polymethylene polyphenylene isocyanate (9016-87-9)<br>IBC Code: Category Y |

## Section 15. Regulatory Information

|                        |  |
|------------------------|--|
| US Federal Regulations | This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.<br><br>Polymethylene polyphenylene isocyanate (9016-87-9)<br>SARA 313: 1 % de minimis concentration<br><br>SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories<br>Flammable; Gas Under Pressure; Carcinogenicity; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity |
| US State Regulations   | The following components appear on one or more of the following state hazardous substances lists:<br><br>Polymethylene polyphenylene isocyanate (9016-87-9)<br>NJ<br><br>Propane (74-98-6)   |

MA, MN, NJ, PA

Isobutane (75-28-5)

MA, NJ, PA

Dimethyl ether (115-10-6)

MA, MN, NJ, PA

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive defects. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Section 16. Other Information

Revision Date

11/14/2019

HMIS and NFPA Rating

HMIS

Health: 2\*

Fire: 3

Reactivity: 0

NFPA

Health: 2

Fire: 3

Reactivity: 0

Hazard Scale:

0 = Minimal

1 = Slight

2 = Moderate

3 = Serious

4 = Severe

\* = Chronic hazard

Disclaimer

The data contained herein is based upon information that Soudal 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.