



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

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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 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. Delayed 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 Precautions for Firefighters

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

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. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

Incompatible Materials

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 TWA	1000 ppm PEL	N/A
Isobutane	1000 ppm	N/A	1000 ppm
Dimethyl ether	N/A	400 ppm	N/A
Polymeric diphenylmethane diisocyanate	0.005 ppm	0.02 mg/m ³	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 water
Partition coefficient Water/n-octanol	Not available
VOC%	16% (by wt) 149 g/L
Viscosity	No data 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 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
	Skin Contact 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.

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 Hazard Class: 2.1 UN#: UN1950 Required Label(s): 2.1
IMDG Information	Shipping Name:AEROSOLS Hazard Class: 2 UN#: UN1950 Required Label(s): 2
TDG Information	Shipping Name:AEROSOLS Hazard Class: 2.1 UN#: UN1950 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. Polymethylene polyphenylene isocyanate (9016-87-9) 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. Polymethylene polyphenylene isocyanate (9016-87-9) SARA 313: 1 % de minimis concentration SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories 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: Polymethylene polyphenylene isocyanate (9016-87-9) NJ 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

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.