



Safety Data Sheet

BOSS® 338 Flexible Foam Gun Grade

Section 1. Identification

Product Identifier BOSS® 338 Flexible Foam Gun Grade

Synonyms 33824; 04400TN10

Manufacturer Stock Numbers N/A

Recommended use Refer to Technical Information

Uses advised against Refer to Technical Information

Manufacturer Contact

Address

Soudal Accumetric
350 Ring Road
Elizabethtown, KY, 42701
USA

Phone

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Emergency Phone

(800) 424-9300

CHEMTREC

Fax

(270) 765-2412

Section 2. Hazards Identification

Classification

ACUTE TOXICITY - INHALATION - Category 4

CARCINOGENICITY - Category 2

EYE DAMAGE/IRRITATION - Category 2A

FLAMMABLE AEROSOLS - Category 1

SENSITIZATION - RESPIRATORY - Category 1A

SENSITIZATION - SKIN - Category 1

SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3

Signal Word

Danger

Pictogram



Hazard Statements

Causes serious eye irritation
Extremely flammable aerosol
Harmful if inhaled
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.
Get medical advice/attention if you feel unwell.
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: If breathing is difficult, 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.
In case of inadequate ventilation wear respiratory protection.
Keep away from heat.
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 hands thoroughly after handling.
Wear eye protection/face 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

50.71%

No Data Available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)	1% - 25%
115-10-6	Dimethyl ether	1% - 10%
75-28-5	Isobutane	1% - 10%
74-98-6	Propane	1% - 10%
9016-87-9	Polymeric diphenylmethane diisocyanate	> 25 %
106-99-0	1,3-Butadiene	< 0.1 %

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.

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 Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
2-Propanol, 1-chloro-, phosphate (3:1)	N/A	N/A	N/A
Dimethyl ether	N/A	400 ppm	N/A
Isobutane	1000 ppm	N/A	1000 ppm
Propane	1000 ppm TWA	1000 ppm PEL	N/A
Polymeric diphenylmethane diisocyanate	0.005 ppm	0.02 mg/m ³	N/A
1,3-Butadiene	N/A	N/A	N/A

Personal Protective Equipment

Goggles, Gloves

Component Exposure Limits

Propane (74-98-6)
 ACGIH:
 (See Appendix F: Minimal Oxygen Content)

NIOSH:
 1000 ppm TWA; 1800 mg/m³ TWA
 2100 ppm IDLH (10% LEL)

OSHA (US):
 1000 ppm TWA; 1800 mg/m³ TWA

Isobutane (75-28-5)
 ACGIH:
 1000 ppm STEL

NIOSH:
 800 ppm TWA; 1900 mg/m³ TWA

Dimethyl ether (115-10-6)
 Europe:
 1000 ppm TWA; 1920 mg/m³ TWA

1,3-Butadiene (106-99-0)
 ACGIH:
 2 ppm TWA

NIOSH:
 2000 ppm IDLH (10% LEL)

OSHA (US):
 1 ppm TWA
 5 ppm STEL (See 29 CFR 1910.1051) 15 min; 0.5 ppm Action Level; 1 ppm TWA
 5 ppm STEL (See 29 CFR 1910.1051)

Biological limit value

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

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

1,3-Butadiene (106-99-0) 2.5 mg/L Medium: urine Time: end of shift Parameter: 1,2-Dihydroxy-4-(N-acetylcysteinyI)-butane (background, semi-quantitative); 2.5 pmol/g hemoglobin Medium: blood Time: not critical Parameter: Mixture of N-1 and N-2-(hydroxybutenyl)valine hemoglobin adducts (semi-quantitative)

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%	26%
Viscosity	No data available
Specific Gravity	N/A
Density lbs/Gal	N/A
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	No data available

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

Section 10. Stability and Reactivity

Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	May polymerize when heated. Reacts with acids, bases.
Reactivity	May be ignited by heat, sparks or flames.
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
	Harmful if inhaled. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
	Skin Contact
	May cause allergic skin reaction.
Component Analysis - LD50/LC50	Eye Contact
	Causes serious eye irritation.
	Ingestion
	No information on significant adverse effects.
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 1230 mg/kg
	Inhalation LC50 Rat 5 mg/L 4 h

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

Oral LD50 Rat 49 g/kg

Inhalation LC50 Rat 490 mg/m³ 4 h

Propane (74-98-6)

Inhalation LC50 Rat 658 mg/L 4 h

Isobutane (75-28-5)

Inhalation LC50 Rat 658 mg/L 4 h

Dimethyl ether (115-10-6)

Inhalation LC50 Rat 308.5 mg/L 4 h

1,3-Butadiene (106-99-0)

Oral LD50 Rat 5480 mg/kg

Inhalation LC50 Rat 285 g/m³ 4 h

Acute and Chronic Toxicity

Immediate Effects

Harmful if inhaled. 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

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

DFG: Category 4 (no significant contribution to human cancer)

1,3-Butadiene (106-99-0)

ACGIH: A2 - Suspected Human Carcinogen

IARC: Monograph 100F [2012]; Monograph 97 [2008]; Monograph 71 [1999]
(Group 1 (carcinogenic to humans))
NTP: Known Human Carcinogen
DFG: Category 1 (causes cancer in man)
OSHA: Present
OSHA: see 29 CFR 1910.1051

Specific Target Organ
Toxicity

Single Exposure (Acute)
Respiratory system

Repeated Exposure (Chronic)
liver, thyroid gland

Medical Conditions
Aggravated by Exposure

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

Section 13. Disposal

Disposal Methods

Dispose of contents/container in accordance with local/regional/national
/international regulations.

Section 14. Transport Information

UN Number

1950

UN Proper Shipping Name

AEROSOLS

DOT Classification

Hazard Class: 2.2 Required Label(s): 2.2, 6.1

Packing Group

2.2

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

Section 15. Regulatory Information

U.S. 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.

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

SARA 313: 1 % de minimis concentration

1,3-Butadiene (106-99-0)

SARA 313: 0.1 % de minimis concentration

CERCLA: 10 lb final RQ; 4.54 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes

Chronic Health: Yes

Fire: Yes

Pressure: Yes

Reactivity: No

U.S. State Regulations The following components appear on one or more of the following state hazardous substances lists:

Isocyanic acid, polymethylenepolyphenylene ester (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

1,3-Butadiene (106-99-0)

CA, MA, MN, NJ, PA

California Proposition 65 The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause cancer

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

1,3-Butadiene (106-99-0)

carcinogen , 4/1/1988

developmental toxicity , 4/16/2004

male reproductive toxicity , 4/16/2004

female reproductive toxicity , initial date 4/16/2004

Canadian WHMIS
Ingredient Disclosure List
(IDL)

Components of this material have been checked against the Canadian WHMIS Ingredient Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.
1,3-Butadiene (106-99-0) 0.1 %

Section 16. Other Information

Revision Date 6/8/2018

HMIS and NFPA Rating
HMIS
Health: 2*
Fire: 3
Reactivity: 3

NFPA
Health: 2
Fire: 3
Reactivity: 3

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 Accumetric 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.