

# Safety Data Sheet

### **BOSS® 334 Minimal Expanding Foam Genius Gun**

#### **Section 1. Identification**

Product Identifier BOSS® 334 Minimal Expanding Foam Genius Gun

Synonyms 33420; 04401TN10

Manufacturer Stock 04401TN10

**Numbers** 

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 Emergency Phone Fax

(270) 769-3385 (800) 424-9300 (270) 765-2412

**CHEMTREC** 

#### Section 2. Hazards Identification

Classification ACUTE TOXICITY - DERMAL - Category 4

ACUTE TOXICITY - INHALATION - Category 4

ACUTE TOXICITY - ORAL - Category 4

**CARCINOGENICITY - Category 2** 

EYE DAMAGE/IRRITATION - Category 2A FLAMMABLE AEROSOLS - Category 1

SENSITIZATION - RESPIRATORY - Category 1A

SENSITIZATION - SKIN - Category 1

SKIN CORROSION/IRRITATION - Category 2

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

Causes skin irritation

Extremely flammable aerosol

Harmful if inhaled Harmful if swallowed

Harmful in contact with skin

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.

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 on skin: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

Specific treatment (see label)

Take off contaminated clothing and wash it before reuse.

Take off immediately all contaminated clothing and wash it before reuse.

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 eat, drink or smoke when using this product.

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.

Wear protective gloves/protective clothing.

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

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

Other Hazards

Contains isocyanates. See information supplied by the manufacturer. Allergic sensitization may be possible with isocyanates. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

### **Section 3. Ingredients**

CAS	Ingredient Name	Weight %
9016-87-9	Polymeric diphenylmethane diisocyanate	> 25 %
13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)	< 25 %
63449-39-8	Chlorinated paraffin waxes and hydrocarbon waxes	< 25 %
75-28-5	Isobutane	< 20 %
74-98-6	Propane	< 10 %

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; Call a POISON CENTER or doctor/physician. Get medical advice/attention if you feel unwell.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. Specific treatment (see label). If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Indication of any immediate Treat symptomatically and supportively. Persons already sensitized to medical attention and

diisocyanates may develop allergic reactions when using this product.

special treatment needed

Most Important Symptoms/Effects Acute

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Delayed

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure: respiratory tract.

#### **Section 5. Fire Fighting Measures**

Suitable Extinguishing

Media

Unsuitable Extinguishing

Media

None known

Water, carbon dioxide

Special Hazards Arising from the Chemical

Extremely flammable aerosol.

**Hazardous Combustion** 

**Products** 

Oxides of carbon, Phosphorus oxides, hydrogen cyanide, hydrogen chloride. May

polymerize when heated.

**Special Protective** Equipment and

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even Precautions for Firefighters after use. Wear full protective fire fighting gear including self contained breathing

apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Danger of explosion. Keep unnecessary people away, isolate hazard area and deny entry. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Do not allow to enter into surface water or drains.

#### Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and **Emergency Procedures** 

Methods and Materials for Containment and Cleaning Up

Wear appropriate personal protective equipment recommended in Section 8 of the SDS. Do not smoke when using this product or handle near an open flame or sparks. Use explosion-proof electrical/ventilating/lighting equipment.

Do not pierce or burn, even after use.

Environmental Precautions Do not allow to enter into surface water or drains. Dike for later disposal.

#### Section 7. Handling and Storage

Precautions for Safe Handling

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even after use. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Take off contaminated clothing and wash before re-use. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/gas/mist

/vapors/spray. Use only outdoors or in a well-ventilated area. [In case of inadequate ventilation] wear respiratory protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use explosion-proof electrical/ventilating/lighting equipment.

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.

Ensure adequate ventilation of the storage area. Maximum storage period (time):

1 year.

Incompatible Materials

Heat, strong acids, strong bases, Amines. Keep away from all ignition sources.

#### Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Polymeric diphenylmethane diisocyanate	0.005 ppm	0.02 mg/m≈	N/A
	2-Propanol, 1-chloro-, phosphate (3:1)	N/A	N/A	N/A
	Chlorinated paraffin waxes and hydrocarbon waxes	N/A	N/A	N/A
	Isobutane	1000 ppm	N/A	1000 ppm
	Propane	1000 ppm TWA	1000 ppm PEL	N/A

Personal Protective Equipment

Component Exposure

Limits

Goggles, Gloves

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

NIOSH: 800 ppmTWA; 1900 mg/m3TWA

Propane (74-98-6) ACGIH: 1000 ppm TWA

NIOSH: 1000 ppmTWA; 1800 mg/m3TWA; 2100 ppmIDLH (10% LEL)

OSHA (US): 1000 ppmTWA; 1800 mg/m3TWA

Biological limit value Engineering Controls There are no biological limit values for any of this product's components.

Use explosion-proof electrical/ventilating/lighting equipment. Keep away from

heat/sparks/open flames/hot surfaces.

Individual Protection Measures, such as Personal Protective Equipment Eye/face protection

Wear splash resistant safety goggles.

Skin Protection

Wear suitable protective clothing and gloves.

Respiratory Protection

Use a respirator with an organic vapor cartridge for concentrations exceeding the occupational exposure limit.

Glove Recommendations

## 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%	18% (by wt)	
	175 g/L	
Viscosity	No data	
	available	
Specific Gravity	No data	
5 ' 11 ' 0 ' 1	available	
Density lbs/Gal	N/A	
Pounds per Cubic Foot	N/A	
Flash Point	Not available	
FP Method	N/A	
рН	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	Not available	
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 of use.

Possibility of Hazardous May polymerize when heated. Reactions

Conditions to Avoid Avoid contact with incompatible materials. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Do not spray on an open flame or other

ignition sources. Do not pierce or burn, even after use.

Heat, strong acids, strong bases, Amines, Keep away from all ignition sources. Incompatible Materials

Oxides of carbon, oxides of phosphorus, hydrogen cyanide, hydrogen chloride

Thermal Decomposition **Products** 

### **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

Harmful in contact with skin. May cause allergic skin reaction. Causes skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

Harmful if swallowed.

#### 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:

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

Inhalation LC50Rat 490 mg/m3 4 h

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

Oral LD50Rat 500 mg/kg

Dermal LD50Rabbit 1230 mg/kg Inhalation LC50Rat 5 mg/L 4 h

Isobutane (75-28-5)

Inhalation LC50Rat 658 mg/L 4 h

Propane (74-98-6)

Inhalation LC50Rat 658 mg/L 4 h

#### Immediate Effects

Harmful in contact with skin. Causes serious eye irritation. Harmful if swallowed. May cause damage to organs. Causes skin irritation.

#### Delayed Effects

May cause allergic skin reaction. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Irritation/Corrosivity Data

Causes serious eye irritation. Causes skin 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 data available.

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

heart.

Specific Target Organ Toxicity - Repeated Exposure

respiratory system.

Aspiration hazard

No data available.

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)

Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8)

IARC: Monograph 48 [1990](Group 2B (possibly carcinogenic to humans))

DFG: Category 3B (could be carcinogenic for man)

**OSHA: Present** 

Medical Conditions Aggravated by Exposure eye disorders, respiratory disorders, heart disorders, skin disorders and allergies. May produce an allergic reaction. Persons already sensitized to disocyanates may develop allergic reactions when using this product.

#### **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

Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8)

Fish:

LC50 96 h Lepomis macrochirus >300 mg/L [static]; LC50 96 h Oncorhynchus mykiss >0.0109 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 94.5 -

271 mg/L [static]; LC50 96 h Lepomis macrochirus >0.1 mg/L [flow-through]; LC50 96 h Pimephales promelas >100 mg/L [static]

#### Section 13. Disposal

Dispose of contents/container in accordance with local/regional/national Disposal Methods

/international regulations. Do not allow to enter into ground-water, surface water

or drains.

#### **Section 14. Transport Information**

**UN Number** 1950

UN Proper Shipping Name AEROSOLS

**DOT Classification** Hazard Class 2.1

Packing Group 2.1

### 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

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

Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: Yes Reactivity: Yes

The components of this product are either not listed on the IDL or are present

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

Not listed under California Proposition 65

below the threshold limit listed on the IDL.

Canadian WHMIS

Ingredient Disclosure List

(IDL)

B5, D2A, D2B

WHMS Classification

### **Section 16. Other Information**

**Revision Date** 

6/1/2018

#### **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.