Safety Data Sheet



# **BOSS 334 Door & Window Foam Gun Grade**

Safety Data Sheet

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                              Supercedes: 11/14/2019
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Version: 2.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier		
Product form Trade name Reference number Vaporizer	: Mixture : BOSS 334 Door & Window Foam Gun Grade : 146818 : Aerosol	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
<ul> <li>1.2.1. Relevant identified uses</li> <li>Intended for general public</li> <li>Main use category</li> <li>Use of the substance/mixture</li> <li>1.2.2. Uses advised against</li> <li>No additional information available</li> </ul>	: Consumer use, Professional use : Polyurethane	
1.3. Details of the supplier of the s	afety data sheet	
Soudal 350 Ring Road Elizabethtown, KY 42701 T (270) 769-3385 www.SoudalUSA.com		
1.4. Emergency telephone number		
Emergency number	Chem Trec (800) 424-9300	

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Aerosol, Category 1 Acute toxicity (inhalation: dust, mist), Category 4 Skin corrosion/irritation, Category 2	H222;H229 H332 H315
Serious eye damage/eye irritation, Category 2	H319
Respiratory sensitization, Category 1	H334
Skin sensitization, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity — Repeated exposure, Category 2	H373
Adverse physicochemical, human health and environmental effect	s

Pressurized container: May burst if heated. Extremely flammable aerosol. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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### 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS07 GHS08 Signal word (CLP) : Danger Hazardous ingredients : polymethylene polyphenyl isocyanate Hazard statements (CLP) : H222 - Extremely flammable aerosol. H229 - Pressurized container: May burst if heated. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H373 - May cause damage to organs through prolonged or repeated exposure. : P101 - If medical advice is needed, have product container or label at hand. Precautionary statements (CLP) P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P308+P313 - IF exposed or concerned: Get medical advice/attention

	P300+P313 - IF exposed of concerned. Get medical advice/attention.
	P405 - Store locked up.
	P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Extra phrases	: Persons already sensitized to diisocyanates may develop allergic reactions when using this product.
	Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
	This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
2.3. Other hazards	

The product does not meet the PBT and vPvB classification criteria.

SECTION 3: Composition/information on ingredients	
3.1. Substances	
Not applicable	

3.2. Mixtures			
Name	Product identifier	%	Classification

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polymethylene polyphenyl isocyanate	(CAS-No.) 9016-87-9	≥ 25 – < 50	Carc. 2, H351 Resp. Sens. 1, H334 Skin Sens. 1, H317 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
reaction products of phosphoryl trichloride and 2methyloxirane	(CAS-No.) 1244733-77-4	≥10 - < 20	Acute Tox. 4 (Oral), H302
dimethyl ether (Propellant gas (Aerosol))	(CAS-No.) 115-10-6	≥ 5 – < 10	Flam. Gas 1A, H220 Press. Gas
isobutane (Propellant gas (Aerosol))	(CAS-No.) 75-28-5	≥ 5 – < 10	Flam. Gas 1A, H220 Press. Gas
propane (Propellant gas (Aerosol)) Full text of H-statements: see section 16	(CAS-No.) 74-98-6	≥ 1 – < 5	Flam. Gas 1A, H220 Press. Gas (Liq.), H280

Full text of H-statements: see section 16

### **SECTION 4: First aid measures**

4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media : Water spray. Dry por	Suitable extinguishing media :Water spray. Dry powder. Foam. Carbon dioxide.	
Unsuitable extinguishing media : None known.		
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: Extremely flammable aerosol.	
Explosion hazard	: Pressurized container: May burst if heated.	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
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5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measu 6.1. Personal precautions, protective equi	
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	
	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	

### Avoid release to the environment.

6.3. Methods and material for containment and cleaning up	
Methods for cleaning up	: Leave the product to solidify. Mechanically recover the product. Carefully collect the spill/leftovers. Notify authorities if product enters sewers or public waters. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	

### SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	:
	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene measures	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Incompatible products	: Heat sources. Ignition sources. Strong bases. Strong acids.
Packaging materials	: Aerosol.
7.3. Specific end use(s)	
No additional information available	

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SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
dimethyl ether (115-10-6)		
AIHA WEEL (TWA)	1,000 ppm (8 hours)	
polymethylene polyphenyl isocyanate (9016-87-9)		
ACGIH (TWA)	0.005 ppm	
Propane (74-98-6)		
NIOSH REL (TWA)	1,800 mg/m³; 1,000 ppm (10 hours)	
OSHA PEL (TWA)	1,800 mg/m³; 1,000 ppm (8 hours)	
Isobutane (75-28-5)		
NIOSH REL (TWA)	1,900 mg/m³; 800 ppm (10 hours)	
ACGIH TLV (STEL)	1,000 ppm (15 min)	
8.2. Exposure controls		

### Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

### Personal protective equipment symbol(s):



**Environmental exposure controls:** Avoid release to the environment.

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties	
Physical state	: Liquid
Appearance	: Aerosol.
Color	: Variable.
Odor	: characteristic.
Odor threshold	: No data available

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рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.047 (20°C)
Density	: 1047 kg/m³ (20°C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Pressurized container: May burst if heated.
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	

VOC content

: < 17.9 % (175 g/l)

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol. Pressurized container: May burst if heated.

#### **10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions** 

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

#### **10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) Acute toxicity (dermal) : Not classified : Not classified.

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Acute toxicity (inhalation) :	Not classified
dimethyl ether (115-10-6)	
LC50 Inhalation - Rat [ppm]	164000 ppm (4 h, Rat, Male, Experimental value, Inhalation (gases), 14 day(s))
propane (74-98-6)	
LC50 Inhalation - Rat [ppm]	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))
isobutane (75-28-5)	
LC50 Inhalation - Rat [ppm]	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))

polymethylene polyphenyl isocyanate (9016-87-9)		
LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)	
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)	
reaction products of phosphoryl trichloride a	nd 2-methyloxirane (1244733-77-4)	
LD50 oral rat	632 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 Inhalation - Rat	> 7 mg/l/4h	
Skin corrosion/irritation :	Causes skin irritation.	
Serious eye damage/irritation :	Causes serious eye irritation.	
Respiratory or skin sensitization :	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Suspected of causing cancer.	
polymethylene polyphenyl isocyanate (9016-87-9)		
IARC group	3 - Not classifiable	
Reproductive toxicity :	Not classified	
STOT-single exposure :	May cause respiratory irritation.	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard :	Not classified	
Soudafoam Fireblock Gun		
Vaporizer	Aerosol	

## SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse
Hazardous to the aquatic environment, short-term	effects in the environment. : Not classified
(acute) Hazardous to the aquatic environment, long-term	: Not classified (chronic)
Not rapidly degradable	
dimethyl ether (115-10-6)	

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-	> 4100 mg/l (NEN 6504: Water - Determination of toxicity with Poecilia reticulata, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value, Lethal)	
EC50 - Crustacea [1]	> 4400 mg/l (NEN 6501: Water - Determination of toxicity with Daphnia magna, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)	
EC50 96h - Algae [1]	154,9 mg/l (ECOSAR v1.00, Algae, QSAR)	
propane (74-98-6)		
.C50 - Fish [1]	49,9 mg/l (96 h, Pisces, Fresh water, QSAR, Estimated value)	
EC50 96h - Algae [1]	11,89 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)	
sobutane (75-28-5)		
.C50 - Fish [1]	27,98 mg/l (ECOSAR v1.00, 96 h, Pisces, Fresh water, QSAR)	
EC50 96h - Algae [1]	8,57 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)	
oolymethylene polyphenyl isocyanate (9016	5-87-9)	
.C50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)	
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)		
.C50 - Fish [1]	51 mg/l Pimephalis promelas	
EC50 - Crustacea [1]	131 mg/l Daphnia magna	
EC50 72h - Algae [1]	82 mg/l Pseudokirchnerella subcapitata	
NOEC chronic crustacea	32 mg/l	
NOEC chronic algae	13 mg/l	

dimethyl ether (115-10-6)	
Persistence and degradability not readily degradable in water.	
propane (74-98-6)	
Persistence and degradability	Readily biodegradable in water.

isobutane (75-28-5)	
Persistence and degradability	Readily biodegradable in water.

polymethylene polyphenyl isocyanate (9016-87-9)	
Persistence and degradability	not readily degradable in water.
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
Persistence and degradability	not readily degradable in water.

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Biodegradation	14 % OECD 301E	
12.3. Bioaccumulative potential		
dimethyl ether (115-10-6)		
Partition coefficient n-octanol/water (Log Pow)	0,1 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
propane (74-98-6)		
Partition coefficient n-octanol/water (Log Pow)	1,09 – 2,8 (Experimental value, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
isobutane (75-28-5)		
Partition coefficient n-octanol/water (Log Pow)	1,09 – 2,8 (Experimental value, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
polymethylene polyphenyl isocyanate (9016-87-9)		
BCF - Fish [1]	1 (Pisces, Literature study)	
Partition coefficient n-octanol/water (Log Pow)	10,46 (Calculated, KOWWIN)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)		
BCF - Fish [1]	0,8 – 14	
Partition coefficient n-octanol/water (Log Pow)	2,68	
12.4. Mobility in soil		

dimethyl ether (115-10-6)		
Ecology – soil	Not applicable (gas).	
propane (74-98-6)		
Ecology – soil	Not applicable (gas).	
isobutane (75-28-5)		
Ecology – soil	Not applicable (gas).	
polymethylene polyphenyl isocyanate (9016-87-9)		
Partition coefficient n-octanol/water (Log Koc)	9,078 – 10,597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology – soil	Product adsorbs onto the soil.	
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)		
Partition coefficient n-octanol/water (Log Koc)	2,24	
12.5. Results of PBT and vPvB assessment		
Soudafoam Fireblock Gun		

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The product does not meet the PBT and vPvB classification criteria

12.6. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods		
Waste treatment methods Sewage disposal recommendations	<ul><li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li><li>Do not discharge into drains or the environment.</li></ul>	
Additional information	: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.	
Ecology - waste materials	: Avoid release to the environment.	
European List of Waste (LoW) code	<ul> <li>08 05 01* - waste isocyanates</li> <li>16 05 04* - gases in pressure containers (including halons) containing dangerous substances</li> </ul>	

15 01 10\* - packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

n accordance with ADR / IMD	)G / IATA / ADN / RID /			
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shippin	g name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document descr	iption			
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1

2.1	2.1	2.1	2.1	2.1
I4.4. Packing group			1	I
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental ha	zards		1	1
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary informati	on available		1	1
	ns for user			·

Classification code (ADR)

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Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207, LP200
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D
Transport by sea	
Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69
Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L
Inland waterway transport	
Classification code (ADN)	: 5F
Special provisions (ADN)	: 190, 327, 344, 625
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1
Rail transport	
Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P207, LP200

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Special packing provisions (RID)	:	PP87, RR6, L2
Mixed packing provisions (RID)	:	MP9
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W14
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW9, CW12
Colis express (express parcels) (RID)	:	CE2
Hazard identification number (RID)	:	23

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. US Federal Regulations TSCA All components of this product follow the inventory listing requirements of the US Toxic Substances and Control Act (TSCA) Chemical Substances Inventory.

Clean Air Act Section 112(b) Hazardous Air Pollutan DEA List I chemicals (precursor chemicals): DEA List II Chemicals (essential chemicals): SARA 302/304: SARA 304 RQ: SARA 311/312:	not listed not listed not listed not listed no products were found not applicable
Classification Polymethylene polyphenyl isocyanate	ACUTE TOXICITY (any route of exposure) RESPIRATORY OR SKIN SENSITISATION SPECIFIC TARET ORGAN TOXICITY (single exposure) SPECIFIC TARGET ORGAN TOXICITY (repeated exposure) SKIN CORROSION OR IRRITATION SERIOUS EYE DAMAGE OR EYE IRRITATION
	e polyphenyl isocyanate (9016-87-9) e polyphenyl isocyanate (9016-87-9)
15.1.2. US State Regulations California This product does not require a Safe Harbor was Massachusetts Isobutane Dimethyl ether Propane New Jersey Isobutane Dimethyl ether Propane	arning under California Prop. 65

#### Pennsylvania

Isobutane Dimethyl ether Propane

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### **SECTION 16: Other information**

### Indication of changes:

#### Updated to new style.

Disclaimer: The data contained herein is based upon information that Soudal believes to be reliable. Users of this product have the responsibility to determine 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.