Safety Data Sheet



# **BOSS 337 Construction Adhesive Foam**

Safety Data Sheet

Issue date: 11/15/2024 Supercedes: 11/14/2019 Version: 2.0

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

## 1.1. Product identifier

Product form · Mixture

: BOSS 337 Construction Adhesive Foam Trade name

Reference number 143143 Vaporizer · Aerosol

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use. Professional use

Use of the substance/mixture : Polvurethane

#### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety 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 H222:H229 Acute toxicity (inhalation: dust, mist), Category 4 H332 Skin corrosion/irritation, Category 2 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, H335 Respiratory tract irritation

H373 Specific target organ toxicity — Repeated exposure, Category 2

#### Adverse physicochemical, human health and environmental effects

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.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

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.

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

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))	(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 effects, 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 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 measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 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, including any incompatibilities

Storage conditions

: Protect from sunlight. Do not expose to temperatures exceeding 50  $^{\circ}$ C/ 122  $^{\circ}$ 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 (9016-8	37-9)			
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)			
2 Exposure controls				

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

на	na	pr	ote	Cti	on:

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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: No data available рΗ Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : No data available : No data available Boiling point 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) : 1047 kg/m³ (20°C) Density : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) 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) : Not classified

Acute toxicity (dermal) : Not classified.

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dimethyl ether (115-10-6)  LC50 Inhalation - Rat [ppm]	Acute toxicity (inhalation)	: Not classified
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 and 2-methyloxirane (1244733-77-4)  632 mg/kg  LD50 dermal rat   632 mg/kg  LD50 dermal rat   7 mg/l/4h  Skin corrosion/irritation : Causes skin irritation.  Serious eye damage/irritation : Causes serious eye irritation.  Serious eye damage/irritation : May cause allergic skin reaction.  Germ cell mutagenicity : Not classified  Agerm cell mutagenicity : Suspected of causing cancer.  polymethylene polyphenyl isocyanate (9016-87-9)  IARC group   3 - Not classified  STOT-single exposure : May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard : Not classified		
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 and 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 skin irritation.  Serious eye damage/irritation : Causes serious eye irritation.  Seem cell mutagenicity : Not classified  Sepiratory or skin sensitization allergic skin reaction.  Polymethylene polyphenyl isocyanate (9016-87-9)  IARC group 3 - Not classified  STOT-single exposure : May cause respiratory irritation.  Sepiration hazard : Not classified	dimethyl ether (115-10-6)	
Section   Sect	LC50 Inhalation - Rat [ppm]	164000 ppm (4 h, Rat, Male, Experimental value, Inhalation (gases), 14 day(s))
Section   Sect	propane (74-98-6)	
Second part	LC50 Inhalation - Rat [ppm]	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))
Second part	isobutano (75 29 5)	
LD50 oral rat  > 10000 mg/kg (Rat, Literature study, Oral)  > 5000 mg/kg (Rabbit, Literature study, Dermal)  reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)  LD50 oral rat  632 mg/kg  LD50 dermal rat  > 2000 mg/kg  LD50 dermal rat  > 7 mg/l/4h  Skin corrosion/irritation  Serious eye damage/irritation  Serious eye damage/irritation  Serious eye irritation  Serious eye damage/irritation  Serious eye irritation  Source of causing cancer  polymethylene polyphenyl isocyanate (9016-87-9)  IARC group  3 - Not classified  STOT-single exposure  Serious exposure  May cause respiratory irritation  May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard  Source of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)  Serious exposure  Serious eye damage/irritation  Serious eye damage/irritation  Serious eye damage/irritation  Serious eye damage/irritation  Serious eye irritation  Serious eye irritat	LC50 Inhalation - Rat [ppm]	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))
LD50 oral rat  > 10000 mg/kg (Rat, Literature study, Oral)  > 5000 mg/kg (Rabbit, Literature study, Dermal)  reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)  LD50 oral rat  632 mg/kg  LD50 dermal rat  > 2000 mg/kg  LD50 dermal rat  > 7 mg/l/4h  Skin corrosion/irritation  Serious eye damage/irritation  Serious eye damage/irritation  Serious eye irritation  Serious eye damage/irritation  Serious eye irritation  Source of causing cancer  polymethylene polyphenyl isocyanate (9016-87-9)  IARC group  3 - Not classified  STOT-single exposure  Serious exposure  May cause respiratory irritation  May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard  Source of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)  Serious exposure  Serious eye damage/irritation  Serious eye damage/irritation  Serious eye damage/irritation  Serious eye damage/irritation  Serious eye irritation  Serious eye irritat		
LD50 dermal rabbit  > 5000 mg/kg (Rabbit, Literature study, Dermal)  reaction products of phosphoryl trichloride and 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  Respiratory or skin sensitization  Germ cell mutagenicity  And cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.  Germ cell mutagenicity  Not classified  Suspected of causing cancer.  polymethylene polyphenyl isocyanate (9016-87-9)  IARC group  3 - Not classified  Reproductive toxicity  Not classified  STOT-single exposure  May cause respiratory irritation.  May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard  Not classified	polymethylene polyphenyl isocyanato	e (9016-87-9)
reaction products of phosphoryl trichloride and 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 Serious eye damage/irritation Serious eye damage/irritation Serious eye irritation. Suspected of causing cancer.  polymethylene polyphenyl isocyanate (9016-87-9)  IARC group  3 - Not classified  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	LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)
LD50 oral rat    632 mg/kg	LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)
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 classified  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	reaction products of phosphoryl trich	aloride and 2-methyloxirane (1244733-77-4)
LC50 Inhalation - Rat  > 7 mg/l/4h  Skin corrosion/irritation Serious eye damage/irritation Causes serious eye irritation.  Serious eye damage/irritation Causes serious eye irritation.  Serious eye damage/irritation Causes serious eye irritation.  May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.  Serm 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.  May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard Not classified	LD50 oral rat	632 mg/kg
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 classified  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	LD50 dermal rat	> 2000 mg/kg
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	LC50 Inhalation - Rat	> 7 mg/l/4h
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	Skin corrosion/irritation	: Causes skin irritation.
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	Serious eye damage/irritation	: Causes serious eye irritation.
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	Respiratory or skin sensitization	
IARC group  3 - Not classifiable  Reproductive toxicity  5 Not classified  5 TOT-single exposure 5 TOT-repeated exposure 5 TOT-repeated exposure 6 Signature 6 Signature 6 Signature 6 Signature 6 Signature 7 Not classified 6 Signature 8 Not classified 7 Not classified 8 Not classified	Germ cell mutagenicity	: Not classified
IARC group  3 - Not classifiable  Reproductive toxicity  Not classified  STOT-single exposure  May cause respiratory irritation.  TOT-repeated exposure  May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard  Not classified	Carcinogenicity	: Suspected of causing cancer.
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	polymethylene polyphenyl isocyanate	e (9016-87-9)
STOT-single exposure : May cause respiratory irritation. STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard : Not classified	IARC group	3 - Not classifiable
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard : Not classified	Reproductive toxicity	: Not classified
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard : Not classified	STOT-single exposure	· May cause respiratory irritation
Aspiration hazard : Not classified		
	·	

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Vaporizer

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Aerosol

Hazardous to the aquatic environment, short-term : 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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24400 mg/l (NEN 6501: Water - Determination of toxicity with Daphnia magna, 48 h, Daphnia magna, 5tatic system, Fresh water, Experimental value, Lethal)   154,9 mg/l (ECOSAR v1.00, Algae, QSAR)   156,0 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR, Estimated value)   156,0 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)   156,0 mg/l (ECOSAR v1.00, 96 h, Pisces, Fresh water, QSAR)   156,0 mg/l (ECOSAR v1.00, Algae, Fresh w	LC50 - Fish [1]	> 4100 mg/l (NEN 6504: Water - Determination of toxicity with Poecilia reticulata, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value, Lethal)
Propane (74-98-6)	EC50 - Crustacea [1]	
LC50 - Fish [1]	EC50 96h - Algae [1]	154,9 mg/l (ECOSAR v1.00, Algae, QSAR)
11,89 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)   11,89 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)   11,89 mg/l (ECOSAR v1.00, 96 h, Pisces, Fresh water, QSAR)   27,98 mg/l (ECOSAR v1.00, 96 h, Pisces, Fresh water, QSAR)   27,98 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)   27,98 mg/l (ECOSAR v1.00, 96 h, Pisces, Fresh water, QSAR)   27,98 mg/l (ECOSAR v1.00,	propane (74-98-6)	
Sobutane (75-28-5)	LC50 - Fish [1]	49,9 mg/l (96 h, Pisces, Fresh water, QSAR, Estimated value)
27,98 mg/l (ECOSAR v1.00, 96 h, Pisces, Fresh water, QSAR)  8,57 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)  polymethylene polyphenyl isocyanate (9016-87-9)  LC50 - Other aquatic organisms [1] > 1000 mg/l (96 h, Literature study)  reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)  LC50 - 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	EC50 96h - Algae [1]	11,89 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)
BC50 96h - Algae [1]  8,57 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)  polymethylene polyphenyl isocyanate (9016-87-9)  LC50 - Other aquatic organisms [1]  > 1000 mg/l (96 h, Literature study)  reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)  LC50 - 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	isobutane (75-28-5)	
polymethylene polyphenyl isocyanate (9016-87-9)  LC50 - Other aquatic organisms [1] > 1000 mg/l (96 h, Literature study)  reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)  LC50 - 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	LC50 - Fish [1]	27,98 mg/l (ECOSAR v1.00, 96 h, Pisces, Fresh water, QSAR)
LC50 - Other aquatic organisms [1] > 1000 mg/l (96 h, Literature study)  reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)  LC50 - 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	EC50 96h - Algae [1]	8,57 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)  LC50 - 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	polymethylene polyphenyl isocyanat	re (9016-87-9)
LC50 - 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	LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)
EC50 - Crustacea [1] 131 mg/l Daphnia magna EC50 72h - Algae [1] 82 mg/l Pseudokirchnerella subcapitata  NOEC chronic crustacea 32 mg/l	reaction products of phosphoryl trick	hloride and 2-methyloxirane (1244733-77-4)
EC50 72h - Algae [1]  82 mg/l Pseudokirchnerella subcapitata  NOEC chronic crustacea  32 mg/l	LC50 - Fish [1]	51 mg/l Pimephalis promelas
NOEC chronic crustacea 32 mg/l	EC50 - Crustacea [1]	131 mg/l Daphnia magna
	EC50 72h - Algae [1]	82 mg/l Pseudokirchnerella subcapitata
NOEC chronic algae 13 mg/l	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 an	nd 2-methyloxirane (1244733-77-4)	
Persistence and degradability not readily degradable in water.		

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Biodegradation	14 % OECD 301E		
2.3. 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 (9016-8	37-9)		
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 (9016-8	7-9)			
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

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations

: Do not discharge into drains or the environment.

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.: 08 05 01\* - waste isocyanates

European List of Waste (LoW) code

16 05 04\* - gases in pressure containers (including halons) containing dangerous

substances

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

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / 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
14.3. Transport hazard c	lass(es)			
2.1	2.1	2.1	2.1	2.1
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
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 information	n available			

## 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

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Limited quantities (ADR) : 1I 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 : CV9, CV12

and handling (ADR)

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) : 1 L

Excepted quantities (ADN) : 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 : CW9, CW12

and handling (RID)

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 Pollutants (HAPS)

DEA List I chemicals (precursor chemicals):

DEA List II Chemicals (essential chemicals):

not listed not listed

SARA 302/304: no products were found SARA 304 RQ: not applicable

**SARA 311/312:** 

Classification

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

**SARA 313** 

**Form R – Reporting requirements** polymethylene polyphenyl isocyanate (9016-87-9) **Supplier Notification** polymethylene polyphenyl isocyanate (9016-87-9)

#### 15.1.2. US State Regulations

#### California

This product does not require a Safe Harbor warning under California Prop. 65

#### Massachusetts

Isobutane Dimethyl ether Propane

## **New Jersey**

Isobutane Dimethyl ether Propane

#### 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.

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