Safety Data Sheet



Soudafoam Black Foam

Safety Data Sheet

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

1.1. Product identifier	
Product form Trade name Reference number Vaporizer	: Mixture : Soudafoam Black Foam : 135015 : 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 Use of the substance/mixture 1.2.2. Uses advised against No additional information available 	 Consumer use, Professional use Polyurethane
1.3. Details of the supplier of the sa	fety data sheet
Soudal 350 Ring Road Elizabethtown, KY 42701 T (270) 769-3385 <u>www.SoudalUSA.com</u>	
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	H222;H229 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	
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

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

Name	Product identifier	%	Classification
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

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reaction products of phosphoryl trichloride and 2methyloxirane	(CAS-No.) 1244733-77-4	≥10 - < 25	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

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 effect	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 medica	l attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media : Water spray. Dry pow	der. Foam. Carbon dioxide.
Unsuitable extinguishing media : None know	n.
5.2. Special hazards arising from the substa	nce 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.
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.

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: 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.
: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
ent and 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.
: Dispose of materials or solid residues at an authorized site.

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	g 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

SECTION 8: Exposure controls/personal protection	
8.1. Control parameters	
dimethyl ether (115-10-6)	
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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	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
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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	: 1,047 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 % (178 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 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	
	Causes skin 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.	
	Not classified	
Aspiration hazard : Soudafoam Fireblock Gun	NOL CIASSINEU	
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 effects in the environment. Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic) Not rapidly degradable : Not classified (chronic)

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)
> 4400 mg/l (NEN 6501: Water - Determination of toxicity with Daphnia magna, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)
154,9 mg/l (ECOSAR v1.00, Algae, QSAR)
49,9 mg/l (96 h, Pisces, Fresh water, QSAR, Estimated value)
11,89 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)
27,98 mg/l (ECOSAR v1.00, 96 h, Pisces, Fresh water, QSAR)
8,57 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)
) 7-9)
> 1000 mg/l (96 h, Literature study)
nd 2-methyloxirane (1244733-77-4)
51 mg/l Pimephalis promelas
131 mg/l Daphnia magna
82 mg/l Pseudokirchnerella subcapitata
32 mg/l
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)	1	
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	 Dispose of contents/container in accordance with licensed collector's sorting instructions. 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.
European List of Waste (LoW) code	 08 05 01* - waste isocyanates 16 05 04* - gases in pressure containers (including halons) containing dangerous substances

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

14.2. UN proper shipping 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

Not applicable Not app	2.1	2.1	2.1	2.1	2.1
4.5. Environmental hazards Dangerous for the environment : No Dangerous for the environment : No	4.4. Packing group			1	1
Dangerous for the environment : No	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
environment : No	4.5. Environmental haza	ards		1	1
Marine pollutant : No	e e	J	3	5	Dangerous for the environment : No
No supplementary information available	o supplementary informatior	n available		1	1

: 5F : 190, 327, 344, 625

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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 Pollutants DEA List I chemicals (precursor chemicals): DEA List II Chemicals (essential chemicals): SARA 302/304: SARA 304 RQ: SARA 311/312:	s (HAPS) 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
	oolyphenyl isocyanate (9016-87-9) oolyphenyl isocyanate (9016-87-9)
15.1.2. US State Regulations California This product does not require a Safe Harbor warn Massachusetts Isobutane Dimethyl ether Propane	ning under California Prop. 65
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.