

# SAFETY DATA SHEET

## ProOne Fire Retardent Gun Foam

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008  
This SDS is for generic information purposes and does not reflect required  
country specific information for OEL  
Last revision: 16-05-2021 V1

### 01 Identification of the substance/mixture and of the company/undertaking

#### 1. Product identifier

Product Name: ProOne Fire Retardent Gun Foam  
Article number: **new, to be created**  
Pure substance/mixture: mixture

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

Recommended use: building and construction work  
Uses advised against: none known.

#### 3. Details of the supplier of the safety data sheet

BME Group Sourcing B.V.  
Walaardt Sacréstraat 405  
1117 BM Schiphol  
The Netherlands  
+31 (0)20 800 34 00  
info@pro-one.nl  
www.bme-group.com

#### 4. Emergency telephone number

Emergency telephone: no information available.

### 02 Hazards identification

#### 1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists):

Category 4 - (H332)

Skin corrosion/irritation:

Category 2 - (H315)

Serious eye damage/eye irritation:

Category 2 - (H319)

Respiratory sensitisation:

Category 1 - (H334)

Skin sensitisation:

Category 1 - (H317)

Carcinogenicity:

Category 2 - (H351)

Specific target organ toxicity - single exposure:

Category 3 - (H335)

Specific target organ toxicity - repeated exposure:

Category 2 - (H373)

Aerosols:

Category 1 - (H222, H229)

### 2. Label elements

Contains Isocyanic acid, polymethylenepolyphenylene ester.



#### A. Signal word

Danger

#### B. Hazard statements

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.

H222: Extremely flammable aerosol.

H229: Pressurised container, may burst if heated.

#### C. EU Specific Hazard Statements

EEUH204: Contains isocyanates. May produce an allergic reaction.

#### D. Precautionary Statements - EU (§28, 1272/2008)

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: Pressurized container, do not pierce or burn, even after use.

P260: Do not breathe mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves and eye/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P405: Store locked up.

P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501: Dispose of contents as hazardous waste in accordance with local/regional/national/international regulations.

## E. Special provisions concerning the labelling of certain mixtures

Persons already sensitised 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. As from 24 August 2023 adequate training is required before industrial or professional use.

## F. Additional information

This product requires tactile warnings if supplied to the general public.

## 3. Other hazards

During transportation by car the cans should stand upright in the cargo space. In case of insufficient ventilation and/or through use, the formation of an explosive/highly flammable mixture is possible. The mentioned hazards are valid for the non-reacted content of the can or of the fresh foam. When foaming the propellants are highly flammable.

**PBT & vPvB:** this mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## 03 Composition/information on ingredients

### 1. Substances

Not applicable.

### 2. Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Isocyanic acid, polymethylenepolyphenylene ester	618-498-9	9016-87-9	40 - < 80	STOT SE 3 (H335) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) Acute Tox. 4 (H332)	STOT SE 3 :: C > = 5% Skin Irrit. 2 :: C > = 5% Eye Irrit. 2 :: C > = 5% Resp. Sens. 1 :: C > = 0.1%	[7]
Phosphorous oxychloride, reaction products with propylene oxide	807-935-0	1244733-77-4	10 - < 20	Acute Tox. 4 (H302)		01-2119486772-26-XXXX
Dimethyl ether	204-065-8	115-10-6	5 - < 10	Flam. Gas 1 (H220) Press. Gas		01-2119472128-37-XXXX
Halogenated polyetherpolyol	-	68441-62-3	1 - < 2.5	Eye Irrit. 2 (H319) Acute Tox. 4 (H302)		[7]

Note [7]: no registration number is given for this substance because it is a polymer exempted from registration according to the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration.

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL.

This product does not contain candidate substances of very high concern at a concentration > = 0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

## 04 First aid measures

### 1. Description of first aid measures

#### A. General advice

Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

#### B. Inhalation

Remove to fresh air. May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.

#### C. Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub

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affected area. Get medical attention if irritation develops and persists.

#### **D. Skin contact**

May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes. Do not use solvents or thinners to dissolve the material.

#### **E. Ingestion**

May produce an allergic reaction. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Clean mouth with water. Drink 1 or 2 glasses of water.

#### **F. Self-protection of the first aider**

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapours or mists.

#### **2. Most important symptoms and effects, both acute and delayed**

Symptoms: may cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Difficulty in breathing.

#### **3. Indication of any immediate medical attention and special treatment needed**

Note to doctors: may cause sensitisation in susceptible persons. Treat symptomatically.

## **05 Firefighting measures**

#### **1. Extinguishing media**

Suitable extinguishing media: Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray.

Unsuitable extinguishing media: DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED. Full water jet.

#### **2. Special hazards arising from the substance or mixture**

Specific hazards arising from the chemical: risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Product is or contains a sensitiser. May cause sensitisation by inhalation and skin contact. May cause sensitisation by skin contact.

Hazardous combustion products: Carbon oxides. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen cyanide. Isocyanates.

#### **3. Advice for firefighters**

Special protective equipment and precautions for

fire-fighters: firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **06 Accidental release measures**

#### **1. Personal precautions, protective equipment and emergency procedures**

Personal precautions: evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid breathing vapours or mists. Other information: ventilate the area. Refer to protective measures listed in Sections 7 and 8. For emergency responders: use personal protection recommended in Section 8.

#### **2. Environmental precautions**

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### **3. Methods and material for containment and cleaning up**

Methods for containment: keep out of drains, sewers, ditches and waterways. Stop leak if you can do it without risk. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Flood with water to complete polymerization and scrape off floor.

Methods for cleaning up: take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards: clean contaminated objects and areas thoroughly observing environmental regulations.

#### **4. Reference to other sections**

See section 8 and 13 for more information.

## **07 Handling and storage**

#### **1. Precautions for safe handling**

Advice on safe handling: use personal protection equipment. 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use spark-proof tools and explosion-proof equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid breathing vapours or mists. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke

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when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse.

General hygiene considerations: do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

## 2. Conditions for safe storage, including any incompatibilities

Storage conditions: protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Store locked up. Keep out of the reach of children. Keep from freezing. Keep/store only in original container. Store in a dry place. Store in a closed container. Protect from moisture.

## 3. Specific end use(s)

Specific use(s): building and construction work.  
Identified uses: Risk Management Methods (RMM): the information required is contained in this Safety Data Sheet.  
Other information: observe technical data sheet.

## 08 Exposure controls/personal protection

### 1 Control parameters

Exposure limits:

*Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.*

Chemical name	European Union
Dimethyl ether 115-10-6	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>

Derived No Effect Level (DNEL):  
no information available.

Derived No Effect Level (DNEL)		
<i>Phosphorous oxychloride, reaction products with propylene oxide (1244733-77-4)</i>		
Type	Exposure route	Derived No Effect Level (DNEL)
Worker, Long term Systemic health effects	Inhalation	8.2 mg/m <sup>3</sup>
Worker, Short term Systemic health effects	Inhalation	22.6 mg/m <sup>3</sup>
Worker, Long term Systemic health effects	Dermal	2.91 mg/kg lg/dag
<i>Dimethyl ether (115-10-6)</i>		
Type	Exposure route	Derived No Effect Level (DNEL)
Worker, Long term Systemic health effects	Inhalation	1894 mg/m <sup>3</sup>

<i>Halogenated polyetherpolyol (68441-62-3)</i>		
Type	Exposure route	Derived No Effect Level (DNEL)
Worker, Long term Systemic health effects	Inhalation	6 mg/m <sup>3</sup>
Worker, Long term Systemic health effects	Dermal	0.87 mg/kg lg/dag

Derived No Effect Level (DNEL)		
<i>Phosphorous oxychloride, reaction products with propylene oxide (1244733-77-4)</i>		
Type	Exposure route	Derived No Effect Level (DNEL)
Consumer, Long term Systemic health effects	Inhalation	1.45 mg/m <sup>3</sup>
Consumer, Short term Systemic health effects	Inhalation	5.6 mg/m <sup>3</sup>
Consumer, Long term Systemic health effects	Dermal	1.04 mg/kg lg/dag
Consumer, Long term Systemic health effects	Oral	0.52 mg/kg lg/dag
Consumer, Short term Systemic health effects	Oral	2 mg/kg lg/dag

<i>Dimethyl ether (115-10-6)</i>		
Type	Exposure route	Derived No Effect Level (DNEL)
Consumer, Long term Systemic health effects	Inhalation	471 mg/m <sup>3</sup>

<i>Halogenated polyetherpolyol (68441-62-3)</i>		
Type	Exposure route	Derived No Effect Level (DNEL)
Consumer, Long term Systemic health effects	Inhalation	1.5 mg/m <sup>3</sup>
Consumer, Long term Systemic health effects	Dermal	0.435 mg/kg lg/dag

Predicted No Effect Concentration (PNEC):  
no information available.

Predicted No Effect Concentration (PNEC)	
<i>Phosphorous oxychloride, reaction products with propylene oxide (1244733-77-4)</i>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.32 mg/l
Marine water	0.032 mg/l
Sewage treatment plant	19.1 mg/l
Freshwater sediment	11.5 mg/kg dry weight
Marine sediment	1.15 mg/kg dry weight
Soil	0.34 mg/kg dry weight

<i>Dimethyl ether (115-10-6)</i>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.155 mg/l
Marine water	0.016 mg/l
Microorganisms in sewage treatment	160 mg/l
Freshwater sediment	0.681 mg/kg dry weight
Soil	0.45 mg/kg dry weight

## 2. Exposure controls

### A. Engineering controls

Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

### B. Eye/face protection

Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

### C. Hand protection

Wear suitable gloves. Butyl rubber. Nitrile rubber. Glove thickness > 0.4 mm. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. The breakthrough time for the mentioned glove material is in general greater

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than 60 min. Gloves must conform to standard EN 374.

## D. Skin and body protection

Wear appropriate personal protective clothing to prevent skin contact.

## E. Respiratory protection

Ensure adequate respiratory protection during spray applications. In case of insufficient ventilation, wear suitable respiratory equipment.

Recommended filter type: organic gases and vapours filter conforming to EN 14387. Wear a respirator conforming to EN 140 with Type A filter or better. AX.

## F. Environmental exposure controls

No information available.

## 09 Physical and chemical properties

### 1. Information on basic physical and chemical properties

Physical state	Aerosol
Appearance	Foam
Colour	Multiple colours
Odour	Characteristic, slight
Odour threshold	No information available

Property	Values
pH	No data available
pH (as aqueous solution)	No data available
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	Not applicable, Aerosol
Flash point	Not applicable, Aerosol
Evaporation rate	Not applicable
Flammability	Not applicable for liquids
<b>Flammability Limit in Air</b>	
Upper flammability or explosive limits	18.6 Vol%
Lower flammability or explosive limits	1.7 Vol%
Vapour pressure	6-7 bar @ 23°C
Relative vapour density	No data available
Relative density	No data available
Water solubility	Immiscible in water
Solubility(ies)	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

### 2. Other information

#### A. Solid content (%)

No information available

#### B. VOC Content (%)

No information available

#### C. Liquid density

1.0493 g/cm<sup>3</sup>

#### D. Minimum Ignition Temperature

235°C

## 10 Stability and reactivity

### 1. Reactivity

No information available.

### 2. Chemical stability

Stable under normal conditions.

## Explosion data

Sensitivity to mechanical impact: none.

Sensitivity to static discharge: yes.

### 3. Possibility of hazardous reactions

Heating causes rise in pressure with risk of bursting.

### 4. Conditions to avoid

Heat, flames and sparks. Excessive heat. Do not freeze.

Protect from moisture. Product cures with moisture.

Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.

### 5. Incompatible materials

Strong acids. Strong bases. Strong oxidising agents. Water.

Alcohols. Amines. Incompatible with oxidising agents.

### 6. Hazardous decomposition products

None under normal use conditions. Stable under recommended storage conditions.

## 11 Toxicological information

### 1. Information on likely routes of exposure

#### Product information

##### A. Inhalation

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation.

##### B. Eye contact

Specific test data for the substance or mixture is not available. Causes serious eye irritation (based on components). May cause redness, itching, and pain.

##### C. Skin contact

Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons (based on components). May cause sensitisation by skin contact. Causes skin irritation.

##### D. Ingestion

Specific test data for the substance or mixture is not available. May cause additional effects as listed under 'Inhalation'. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May be harmful if swallowed.

##### E. Symptoms related to the physical, chemical and toxicological characteristics

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

##### F. Numerical measures of toxicity

###### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral): 2,845.70 mg/kg

ATEmix (inhalation-vapour): 3.27 mg/l

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Component information:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus)	= 1.5 mg/L (Rattus) 4h
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	LD50 > 500 mg/kg (males); LD50 = 632 mg/kg (females) (Rattus)	LD50 > 2000 mg/kg (Rattus) (OECD 402)	LD50 > 7 mg/L (Rattus) 4h (OECD 403)
Dimethyl ether 115-10-6	-	-	= 164000 ppm (Rattus) 4h
Halogenated polyetherpolyol 68441-62-3	LD50 = 1337 mg/kg (Rattus) (OECD 401)	-	-

## G. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation: classification based on data available for ingredients. Irritating to skin.

## H. Serious eye damage/eye irritation

Classification based on data available for ingredients. Causes serious eye irritation.

## I. Respiratory or skin sensitisation

May cause sensitisation by inhalation. May cause sensitisation by skin contact.

## J. Germ cell mutagenicity

Based on available data, the classification criteria are not met.

## K. Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

## L. Reproductive toxicity

Based on available data, the classification criteria are not met.

## M. STOT - single exposure

May cause respiratory irritation.

## N. STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

## O. Aspiration hazard

Based on available data, the classification criteria are not met.

## 2 Information on other hazards

### A. Endocrine disrupting properties

No information available.

### B. Other adverse effects

No information available.

## 12 Ecological information

### 1. Toxicity

Ecotoxicity: not considered to be harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	ErC50 (72h) > 1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	CL50 (96h) > 1000 mg/L (Danio rerio)	-	EC50 (24h) > 1000 mg/L Daphnia magna	-	-
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	ErC50 (72h) = 82 mg/L (Pseudokirchneriella subcapitata) OECD 201	LC50 (96h) = 56.2 mg/L (Brachydanio rerio) Static	-	LC50 (48h) = 131 mg/L Daphnia magna	-	-
Dimethyl ether 115-10-6	-	LC50: > 4.1 g/L (96h, Poecilia reticulata)	-	> 4400 mg/L (Daphnia) (NEN 6501)	-	-
Halogenated polyetherpolyol 68441-62-3	-	LC50: = 560 mg/L (96h, Poecilia reticulata)	-	-	-	-

## 2. Persistence and degradability

No information available.

Component Information:

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% Biodegradation	Not readily biodegradable

Halogenated polyetherpolyol (68441-62-3)			
Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	28 days	16%	Not readily biodegradable

## 3. Bioaccumulative potential

Bioaccumulation: there is no data for this product.

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	-	< 14
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	2.68	-
Dimethyl ether 115-10-6	-0.18	-
Halogenated polyetherpolyol 68441-62-3	3.3	-

## 4. Mobility in soil

No information available.

## 5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

Chemical name	PBT and vPvB assessment
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	The substance is not PBT/vPvB
Dimethyl ether 115-10-6	The substance is not PBT/vPvB
Halogenated polyetherpolyol 68441-62-3	The substance is not PBT/vPvB

## 6. Other adverse effects

No information available.

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## 13 Disposal considerations

### 1. Waste treatment methods

#### A. Waste from residues/unused products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

#### B. Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### C. European Waste Catalogue

08 05 01\* waste isocyanates.

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

17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03.

#### D. Other information

Waste codes should be assigned by the user based on the application for which the product was used.

## 14 Transport information

Note: keep from freezing.

### 1. Land transport (ADR/RID)

#### A. UN number or ID number

UN1950

#### B. Proper Shipping Name

Aerosols

#### C. Transport hazard class(es)

2

Labels: 2.1

#### D. Packing group

Not regulated

Description: UN1950, Aerosols, 2, (D)

#### E. Environmental hazards

Not applicable

#### F. Special Provisions

190, 327, 344, 625

Classification code: 5F

Tunnel restriction code: (D)

Limited Quantity (LQ): 1 L

### 2. IMDG

#### A. UN number or ID number

UN1950

#### B. Proper Shipping Name

Aerosols

#### C. Transport hazard class(es)

2.1

#### D. Packing group

Not regulated

Description: UN1950, Aerosols, 2.1, (0°C c.c.)

#### E. Marine pollutant

NP

#### F. Special Provisions

63, 190, 277, 327, 344, 381, 959

Limited Quantity (LQ): See SP277

EmS-No: F-D, S-U

#### G. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## 3. Air transport (ICAO-TI/IATA-DGR)

### A. UN number or ID number

UN1950

### B. Proper Shipping Name

Aerosols, flammable

### C. Transport hazard class(es)

2.1

### D. Packing group

Not regulated

Description: UN1950, Aerosols, flammable, 2.1

### E. Environmental hazards

Not applicable

### F. Special Provisions

A145, A167, A802

Limited Quantity (LQ): 30 kg G

ERG Code: 10L

## 15 Regulatory information

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

#### European Union

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

– SVHC: Substances of Very High Concern for Authorisation: this product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59).

– EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction: this product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

– Substance subject to authorisation per REACH

Annex XIV: this product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV).

– Dangerous substance category per Seveso Directive (2012/18/EU):

P3a - FLAMMABLE AEROSOLS

P3b - FLAMMABLE AEROSOLS

– Ozone-depleting substances (ODS) regulation (EC) 1005/2009: not applicable.

– Persistent Organic Pollutants: not applicable.

#### National regulations

##### France

Occupational illnesses (R-463-3, France):

Chemical name	French RG number
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	RG 62
Dimethyl ether 115-10-6	RG 84

##### Germany

– Ordinance on Industrial Safety and Health, Germany  
– BetrSichV: no flammable liquids in accordance with BetrSi.

– Water hazard class (WGK): slightly hazardous to water (WGK 1).

##### Netherlands

List of carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands): not Listed.

# SAFETY DATA SHEET PRO ONE FIRE RETARDENT GUN FOAM

## Denmark

Registration number(s) (P-no.): no information available.

## Norway

Registration number(s) (PRN-no.): no information available.

## 2. Chemical safety assessment

Chemical safety assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No chemical safety assessment has been carried out for this mixture.

## 16 Other information

*Key or legend to abbreviations and acronyms used in the safety data sheet. Full text of H-Statements referred to under section 3:*

H220: Extremely flammable gas

H302: Harmful if swallowed

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

## Legend

TWA: Time Weighted Average

STEL: Short Term Exposure Limit

Ceiling: Maximum limit value

\*: Skin designation

SVHC: Substances of Very High Concern for Authorisation

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

## Key literature references and sources for data

No information available.

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