

Sealprem Sprayable Insulating Foam

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Name/Identifier

Sealprem Sprayable Insulating Foam

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

Thermal insulation.

1.3. Details of the supplier of the safety data sheet

Premier Sealant Systems Ltd.
Mercia Way,
Foxhills Industrial Park,
Scunthorpe,
North Lincolnshire,
DN15 8RE
Tel. 01724 864 100

1.4. Emergency telephone number

NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only). For medical advice, members of the public should contact NHS 111 in England: 111; NHS 24 in Scotland: 111; NHS Direct in Wales: 111 or 0845 4647. In Northern Ireland: contact your local GP or pharmacist. In Europe call 112.

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to GB CLP Regulation

Classification of this product has been carried out in accordance with GB CLP Regulation.

Aerosol 1: Flammable aerosols, Category 1, H222

Aerosol 1: Pressurised container: May burst if heated., H229

Aquatic Chronic 4: Hazardous to the aquatic environment, long-term hazard, Category 4, H413

Lact.: Reproductive toxicity, effects on or via lactation, H362.

2.2. Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H362 - May cause harm to breast-fed children.

H413 - May cause long lasting harmful effects to aquatic life.

Precautionary statements

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.

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

P280: Wear protective gloves/protective clothing/eye protection/protective footwear.

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

P501: Dispose of the contents and/or its container using the separate collection system in your municipality.

Supplemental label information

EUH204: Contains isocyanates. May produce an allergic reaction.

Substances that contribute to the classification

Alkanes, C14-17, chloro.

2.3. Other hazards

Product contains PBT/vPvB substances: Alkanes, C14-17, chloro.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

This product is a mixture. In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Safety Data Sheet



Identification	Chemical name/Classification	Concentration
CAS: 75-28-5	Isobutane Flam. Gas 1A: H220; Press. Gas (Liq.): H280 - Danger	10 - <20 %
CAS: 115-10-6	Dimethyl ether Flam. Gas 1A: H220; Press. Gas: H280 - Danger	2,5 - <10 %
CAS: 74-98-6	Propane Flam. Gas 1A: H220; Press. Gas: H280 - Danger	2,5 - <10 %
CAS: 85535-85-9	Alkanes, C14-17, chloro Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Lact.: H362; EUH066 - Warning	2,5 - <5 %
CAS: 1244733-77-4	Reaction products of phosphoryl trichloride and 2-methyloxirane Acute Tox. 4: H302; Aquatic Chronic 3: H412 - Warning	2,5 - <5 %
CAS: 26471-62-5	Toluene Diisocyanate Acute Tox. 2: H330; Aquatic Chronic 3: H412; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	0,01 - <0,1 %
CAS: 556-67-2	Octamethylcyclotetrasiloxane Aquatic Chronic 1: H410; Flam. Liq. 3: H226; Repr. 2: H361f - Warning	0,01 - <0,1 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other Information:

Identification	M-factor	
	Acute	1
Octamethylcyclotetrasiloxane CAS: 556-67-2	Chronic	10

Identification	Specific concentration limit
Toluene Diisocyanate CAS: 26471-62-5	% (w/w) >=0,1: Resp. Sens. 1 - H334

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
	Reaction products of phosphoryl trichloride and 2-methyloxirane CAS: 1244733-77-4	LD50 oral	
	LD50 dermal	Not relevant	
	LC50 inhalation	>20 mg/L	

4. FIRST AID MEASURES

4.1. Description of first aid measures

General information

In all cases of doubt, or if symptoms persist, seek medical attention and show this SDS. Never give anything by mouth to an unconscious person.

Inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

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Ingestion:	Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.
Skin contact:	Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.
Eye contact:	Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

4.2. Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

Notes for the doctor

Not applicable.

Specific treatments

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC).

Unsuitable extinguishing media

Water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

Hazardous combustion products

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit). Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2. Environmental precautions

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

Methods and material for containment and cleaning up

It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions

A.- General precautions for safe use:

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions:

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene:

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks:

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash their hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in a cool, dry, well-ventilated location. Maximum storage temperature +30°C. Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5.

Storage class

Not classified.

7.3. Specific end use(s)

Field of application of the product is described in Technical data sheet (TDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Substances whose occupational exposure limits have to be monitored in the workplace:
EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Safety Data Sheet



Identification	Occupational exposure limits			
	Dimethyl ether CAS: 115-10-6	WEL (8h)	400 ppm	766 mg/m ³
		WEL (15 min)	500 ppm	958 mg/m ³

DNEL (Workers)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Dimethyl ether CAS: 115-10-6 EC: 204-065-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	1894 mg/m ³	Not relevant
Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	47.9 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	6.7 mg/m ³	Not relevant
Reaction products of phosphoryl trichloride and 2- methyloxirane CAS: 1244733-77-4 EC: 807-935-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2.91 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	8.2 mg/m ³	Not relevant
Toluene Diisocyanate CAS: 26471-62-5 EC: 247-722-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0.14 mg/kg	Not relevant
	Inhalation	Not relevant	0.035 mg/m ³	0.035 mg/m ³	0.14 mg/m ³
Octamethylcyclotetrasiloxan e CAS: 556-67-2 EC: 209-136-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	73 mg/m ³	73 mg/m ³

DNEL (General population)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Dimethyl ether CAS: 115-10-6 EC: 204-065-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	471 mg/m ³	Not relevant
Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	Oral	Not relevant	Not relevant	0.58 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	28.75 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	2 mg/m ³	Not relevant
Reaction products of phosphoryl trichloride and 2- methyloxirane CAS: 1244733-77-4 EC: 807-935-0	Oral	2 mg/kg	Not relevant	0.52 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1.04 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1.45 mg/m ³	Not relevant
Octamethylcyclotetrasiloxane CAS: 556-67-2 EC: 209-136-7	Oral	Not relevant	Not relevant	3.7 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	13 mg/m ³	13 mg/m ³

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Predicted No Effect Concentration

Identification				
Dimethyl ether CAS: 115-10-6 EC: 204-065-8	STP	160 mg/L	Fresh water	0.155 mg/L
	Soil	0.045 mg/kg	Marine water	0.016 mg/L
	Intermittent	1.549 mg/L	Sediment (Fresh water)	0.681 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.069 mg/kg
Alkanes, C14-17, chloro CAS: 85535-85-9 EC: 287-477-0	STP	80 mg/L	Fresh water	0.001 mg/L
	Soil	11.9 mg/kg	Marine water	0.0002 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	13 mg/kg
	Oral	0.01 g/kg	Sediment (Marine water)	2.6 mg/kg
Reaction products of phosphoryl trichloride and 2- methyloxirane CAS: 1244733-77-4 EC: 807-935-0	STP	19.1 mg/L	Fresh water	0.32 mg/L
	Soil	0.34 mg/kg	Marine water	0.032 mg/L
	Intermittent	0.51 mg/L	Sediment (Fresh water)	11.5 mg/kg
	Oral	0.0116 g/kg	Sediment (Marine water)	1.15 mg/kg
Toluene Diisocyanate CAS: 26471-62-5 EC: 247-722-4	STP	1 mg/L	Fresh water	0.013 mg/L
	Soil	1 mg/kg	Marine water	0.001 mg/L
	Intermittent	0.125 mg/L	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant
Octamethylcyclotetrasiloxane CAS: 556-67-2 EC: 209-136-7	STP	10 mg/L	Fresh water	0.0015 mg/L
	Soil	0.54 mg/kg	Marine water	0.00015 mg/L
	Intermittent	Not relevant	Sediment (Fresh water)	3 mg/kg
	Oral	0.041 g/kg	Sediment (Marine water)	0.3 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Appropriate ventilation is recommended. Emergency shower (ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011) and eye wash station (DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011) recommended.

Eye/face protection

Panoramic glasses against splash/projections.

Hand protection

Protective gloves against minor risks. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018.

Other skin and body protection

Antistatic and fireproof protective clothing and Safety footwear with antistatic and heat resistant properties. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. Grossly contaminated clothing should be removed and the skin washed with soap and water or a recognised skin cleaner. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

Respiratory protection

Not necessary, however, choose depending on task being performed.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

V.O.C. (Supply):	31.18 % weight
V.O.C. density at 20 °C:	270.31 kg/m ³ (270.31 g/L).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Colour	Light yellow
Odour	Not available
Odour threshold	Not available
pH	Not applicable
Melting point	Not applicable
Initial boiling point and range	-12 °C (Propellant)
Flash point	No information available
Evaporation rate	No information available
Evaporation factor	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapour pressure at 20 °C	Not relevant
Vapour pressure at 50 °C	<300000 (300 kPa)
Vapour density	No information available
Density at 20°C	867kg/m ³
Relative density	No information available
Bulk density	No information available
Solubility(ies)	No information available
Partition coefficient	No information available
Auto-ignition temperature	460 °C
Decomposition Temperature	No information available
Viscosity	No information available
Explosive properties	Not applicable
Oxidising properties	Not applicable
VOC	Not applicable
LEED (2009) VOC	Not applicable

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9.2. Other information

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2. Chemical stability

Chemically stable under the indicated conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to avoid

Risk of combustion, direct sunlight.

10.5. Incompatible materials

Avoid contact with strong acids, oxidising materials, alkalis and strong basis.

10.6. Hazardous decomposition products

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO), carbon monoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

The experimental information related to the toxicological properties of the product itself is not available. Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health. In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

Acute toxicity (Acute oral toxicity)

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

Corrosivity/Irritability: Based on available data, the classification criteria are not met, however, it does contain substances classified as hazardous for this effect. For more information see section 3.

Acute toxicity (Acute dermal toxicity)

Based on available data, the classification criteria are not met, however, it contains substances classified as hazardous for skin contact. For more information see section 3.

Acute toxicity (Acute inhalation toxicity)

Based on available data, the classification criteria are not met, however, it contains substances classified as hazardous for inhalation. For more information see section 3.

Skin Corrosion/Irritation

Based on available data, the classification criteria are not met, however, it does contain substances classified as hazardous for this effect. For more information see section 3.

Serious Eye Damage/Irritation

Based on available data, the classification criteria are not met, however, it does contain substances classified as hazardous for this effect. For more information see section 3.

Respiratory or Skin Sensitisation

Respiratory: Based on available data, the classification criteria are not met, however, it does contain substances classified as hazardous with sensitising effects. For more information see section 3.
Skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Carcinogenicity

Based on available data, the classification criteria are not met, however, it does contain substances classified as dangerous with carcinogenic effects. For more information see section 3.

Reproductive Toxicity

May cause harm to breast-fed children.

Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met, however, it does contain substances classified as hazardous for this effect. For more information see section 3.

Specific target organ toxicity (repeated exposure)

Based on available data, the classification criteria are not met, however, it does contain substances which are classified as dangerous (skin) due to repetitive exposure. For more information see section 3.

Aspiration Hazard

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

11.2. Components influencing toxicology

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
	Route	Toxicity	
Alkanes, C14-17, chloro CAS: 85535-85-9	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Reaction products of phosphoryl trichloride and 2-methyloxirane CAS: 1244733-77-4	LD50 oral	632 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	Rat
	LC50 inhalation	>20 mg/L	
Isobutane CAS: 75- 28-5	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Propane CAS: 74- 98-6	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Dimethyl ether CAS: 115-10-6	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	308.5 mg/L (4 h)	Rat
Toluene Diisocyanate CAS: 26471-62-5	LD50 oral	3360 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	
Octamethylcyclotetrasiloxane CAS: 556-67-2	LD50 oral	61440 mg/kg	Rat
	LD50 dermal	10000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	

11.3. Information on other hazards

Not information available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Product-specific aquatic toxicity:

Acute toxicity		Species	Genus
EC50	1000 mg/L (48 h)	Daphnia magna	Crustacean
EC50	1000 mg/L (72 h)	Desmodesmus subspicatus	Algae

Acute toxicity:

Identification	Concentration		Species	Genus
Alkanes, C14-17, chloro CAS: 85535-85-9	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
Reaction products of phosphoryl trichloride and 2-methyloxirane CAS: 1244733-77-4	LC50	100 mg/L (96 h)	Danio rerio	Fish
	EC50	131 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	82 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Toluene Diisocyanate CAS: 26471-62-5	LC50	133 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	12.5 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4300mg/L (96 h)	Chlorella vulgaris	Algae
Octamethylcyclotetrasiloxane CAS: 556-67-2	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Reaction products of phosphoryl trichloride and 2-methyloxirane CAS: 1244733-77-4	NOEC	Not relevant		
	NOEC	32 mg/L	Daphnia magna	Crustacean
Toluene Diisocyanate CAS: 26471-62-5	NOEC	Not relevant		
	NOEC	1.1 mg/L	Daphnia magna	Crustacean

12.2. Persistence and degradability

Identification	Degradability		Biodegradability	
Reaction products of phosphoryl trichloride and 2-methyloxirane CAS: 1244733-77-4	BOD5	Not relevant	Concentration	20 mg/L
	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	14 %
Octamethylcyclotetrasiloxane CAS: 556-67-2	BOD5	Not relevant	Concentration	10 mg/L
	COD	Not relevant	Period	29 days
	BOD5/COD	Not relevant	% Biodegradable	4 %

12.3. Bioaccumulative potential

Identification	Bioaccumulation potential	
Isobutane CAS: 75-28-5	BCF	27
	Pow Log	2.76
	Potential	Low
Propane: CAS: 74-98-6	BCF	13
	Pow Log	2.86
	Potential	Low
Reaction products of phosphoryl trichloride and 2-methyloxirane CAS: 1244733-77-4	BCF	8
	Pow Log	3.17
	Potential	Low

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Octamethylcyclotetrasiloxane CAS: 556-67-2	BCF	12400
	Pow Log	6.5
	Potential	Very High

12.4. Mobility in soil

Identification	Absorption/desorption		Volatility	
Isobutane CAS: 75-28-5	Koc	35	Henry	120576.75 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	9.84E-3 N/m (25 °C)	Moist soil	Yes
Dimethyl ether CAS: 115-10-6	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	1.136E-2 N/m (25 °C)	Moist soil	Not relevant
Propane CAS: 74-98-6	Koc	460	Henry	71636.78 Pa·m ³ /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	7.02E-3 N/m (25 °C)	Moist soil	Yes
Reaction products of phosphoryl trichloride and 2- methyloxirane CAS: 1244733-77-4	Koc	324.2	Henry	6E-3 Pa·m ³ /mol
	Conclusion	Moderate	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
Octamethylcyclotetrasiloxane CAS: 556-67-2	Koc	16600	Henry	1200000 Pa·m ³ /mol
	Conclusion	Immobile	Dry soil	Yes
	Surface tension	1.819E-2 N/m (25 °C)	Moist soil	Yes

12.1. Results of PBT and vPvB assessment

Product contains PBT/vPvB substances: Alkanes, C14-17, chloro.

12.2. Other adverse effects

Not described.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Code	Description	Waste class
16 05 04*	gases in pressure containers (including halons) containing hazardous substances	Hazardous

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

In accordance with Annex II of UK REACH the provisions related to waste management are stated: UK legislation: The Waste Regulations 2011.

Disposal methods

Dispose of in accordance with local regulations.

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13.2. Waste class

HP3 Flammable, HP14 Ecotoxic.

14. TRANSPORT INFORMATION

14.1. Classification for ROAD and Rail transport (ADR/RID)

With regard to ADR 2023 and RID 2023:

UN number:	UN1950
UN proper shipping name:	AEROSOLS
Transport hazard class(es):	2
Labels:	2.1
Packing group:	N/A
Environmental hazards:	No
Special precautions for user:	
Tunnel restriction code:	D
Physico-Chemical properties:	see section 9
Limited quantities:	1 L
Transport in bulk according to ex II of Marpol and the IBC Code:	Not relevant



14.2. Transport by sea GGVSee/IMDG-Code

UN number:	UN1950
UN proper shipping name:	AEROSOLS
Transport hazard class(es):	2
Labels:	2.1
Packing group:	N/A
Marine pollutant:	No
Special precautions for user	
Special regulations:	63, 959, 190, 277, 327, 344
EmS Codes:	F-D, S-U
Physico-Chemical properties:	see section 9
Limited quantities:	1 L
Segregation group:	Not relevant
Transport in bulk according to ex II of Marpol and the IBC Code:	Not relevant



14.3. Air Transport ICAO-TI/IATA-DGR

UN number:	UN1950
UN proper shipping name:	AEROSOLS
Transport hazard class(es):	2
Labels:	2.1
Packing group:	N/A
Environmental hazards:	No
Special precautions for user:	
Physico-Chemical properties:	see section 9
Transport in bulk according to Annex II of Marpol and the IBC Code:	Not relevant



15. REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Alkanes, C14-17, chloro (85535-85-9); Octamethylcyclotetrasiloxane (556-67-2); Decamethylcyclopentasiloxane (541-02-6); Dodecamethylcyclohexasiloxane (540-97-6); Octamethylcyclotetrasiloxane (556-67-2)
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant.

The Control of Major Accident Hazards Regulations 2015:

Section	Description	Lower-tier requirements	Upper-tier requirements
P3a	FLAMMABLE AEROSOLS	150	500

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc.):

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Contains Octamethylcyclotetrasiloxane, Octamethylcyclotetrasiloxane, Decamethylcyclopentasiloxane. 1. | Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020. | 2. | For the purposes of this entry, “wash-off cosmetic products” means cosmetic products as defined in Article 2 (1)(a) of Regulation (EC) No 1223/2009 that, under normal conditions of use, are washed off with water after application.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits.
The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019: SCHEDULE 13 - Amendment of the Aerosol Dispensers Regulations 2009
The Product Safety and Metrology etc. (Amendment etc.) (UK(NI) Indication) (EU Exit) Regulations 2020.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

16. OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

H222: Extremely flammable aerosol.
H362: May cause harm to breast-fed children.
H413: May cause long lasting harmful effects to aquatic life.
H229: Pressurised container: May burst if heated.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

GB CLP Regulation:

Acute Tox. 2: H330 - Fatal if inhaled.
Acute Tox. 4: H302 - Harmful if swallowed.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Carc. 2: H351 - Suspected of causing cancer.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Gas 1A: H220 - Extremely flammable gas.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Lact.: H362 - May cause harm to breast-fed children.
Press. Gas (Liq.): H280 - Contains gas under pressure, may explode if heated.
Press. Gas: H280 - Contains gas under pressure, may explode if heated.
Repr. 2: H361f - Suspected of damaging fertility.
Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:

Aerosol 1: Calculation method
Aerosol 1: Calculation method
Lact.: Calculation method
Aquatic Chronic 4: Test data.

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Abbreviations and acronyms used in the safety data sheet

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
BCF: Bioconcentration Factor.
CAS: Chemical Abstracts Service.
cATpE: Converted acute toxicity point estimate.
DNEL: Derived No Effect Level.
EC₅₀: 50% of maximal Effective Concentration.
GHS: Globally Harmonized System.
IATA: International Air Transport Association.
IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
LC50: Lethal Concentration to 50 % of a test population.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
LOEC: Lowest Observed Effect Concentration.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
SVHC: Substances of Very High Concern.
vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Asp. Tox. = Aspiration hazard

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Eye Dam. = Serious eye damage

Flam. Liq. = Flammable liquid

Repr. = Reproductive toxicity

Skin Irrit. = Skin irritation

Skin Sens. = Skin sensitisation

STOT RE = Specific target organ toxicity-repeated exposure

STOT SE = Specific target organ toxicity-single exposure

Key literature references and sources for data

Source: European Chemicals Agency, <http://echa.europa.eu/> SDS from supplier.

Revision comments

Revision date

25/03/2024

Revision

1

Supersedes date

Not applicable

SDS status

Approved.

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