

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

BOSTIK FP404 FIRE RETARDENT PU GUN FOAM Supercedes Date: 19-Jan-2023 Revision date 25-Sep-2023 Revision Number 1.02

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier **Product Name** BOSTIK FP404 FIRE RETARDENT PU GUN FOAM Other means of identification Pure substance/mixture Mixture 1.2. Relevant identified uses of the substance or mixture and uses advised against **Recommended use** Aerosol Professional cleaning activities with Aprotic Polar Solvents are not supported. Uses advised against Reason why uses advised against Use advised against in Chemical Safety Assessment per REACH Annex I point 7 2.3 1.3. Details of the supplier of the safety data sheet **Company Name** Bostik Romania SRL 51, Rasaritului Street (DN7) 070000 Buftea llfov Romania Phone: +40 372 833 300 Fax: +40 372 833 301 www.bostik.com SDS.box-EU@bostik.com E-mail address 1.4. Emergency telephone number **Emergency Telephone** SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Acute toxicity - Inhalation (Dusts/Mists) Category 4 - (H332)

Acute toxicity - initialation (Dusts/Mists)	
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)
Category 3 Respiratory irritation	
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Aerosols	Category 1 - (H222, H229)

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2.2. Label elements

Contains Diphenylmethane-diisocyanate, isomers and homologues



Signal word Danger

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

EU Specific Hazard Statements

EUH204 - Contains isocyanates. May produce an allergic reaction

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 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 water and soap
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor

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

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 an approved waste disposal plant

Special provisions concerning the labelling of certain mixtures

Persons already sensitised to disocyanates 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.

Additional information

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

2.3. 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 a explosive/highly flammable mixture is possible. The mentioned hazards are valid for the non-reacted

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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).

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name EC No (EU Index No). CAS No Classification according to Regulation (EC) No. 1272/2008 [CLP] MFactor (scL) M-Factor (ng-ter m) Refactor registration number Diphenylmethane-diisocy anate, isomers and homoiogues 618-498-9 9016-87-9 STOT RE 2 (H373) StoT RE 2 (H373) StoT RE 2 (H373) STOT SE 3 : Cx=5% StoT RE 2 (H374) - - [7] Reaction products of phosphoryl trichloride and 10 - <20 % 807-935-0 1244733-77-4 Acute Tox. 4 (H302) Acute Tox. 4 (H302) - - 01-2119486772- 26-XXXX Dimethyl ether 10 - <20 % (603-019-00- 5 - <10 % 115-10-6 Flam. Gas 1 (H220) Press. Gas (H280) - - 01-2119486772- 26-XXXX Isobutane 10 - <20 % (601-004-00- 0.1 - <5 % 75-28-5 Flam. Gas 1 (H220) Press. Gas (H280) - - 01-2119485395- 27-XXXX Halogenated polyetherpolyol 0.1 - <2.5 % 68441-62-3 Eye Irrit. 2 (H319) Acute Tox. 4 (H302) - - 01-21194533103- 55-XXXX Propylene carbonate 0.1 - <1 % (607-194-00- 1) 108-32-7 Eye Irrit. 2 (H319) Acute Tox. 4 (H302) - - 01-2119537232- 48-XXXX Propylene carbonate 0.1 - <1 % (603-719-00- 1) 111-46								
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Full text of H- and EUH-phrases: see section 16

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

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Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Diphenylmethane-diiso cyanate, isomers and homologues	618-498-9	9016-87-9	-	-	1.5	-	-
Reaction products of phosphoryl trichloride and 2-methyloxirane	807-935-0	1244733-77-4	632	-	-		-
Dimethyl ether	(603-019-00-8) 204-065-8	115-10-6	-	-	-	-	-
Isobutane	(601-004-00-0) (601-004-01-8) 200-857-2	75-28-5	-	-	-		-
Halogenated polyetherpolyol	-	68441-62-3	1337	-	-	-	-
Propylene carbonate	(607-194-00-1) 203-572-1	108-32-7	-	-	-	-	-
Diethylene Glycol	(603-140-00-6) 203-872-2	111-46-6	1120	-	Ī	-	-

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

Notes

See section 16 for more information

Chemical name	Notes
Dimethyl ether - 115-10-6	U
Isobutane - 75-28-5	C,U

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
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 attention.
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 affected area. Get medical attention if irritation develops and persists.
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.
Ingestion	May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the

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	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.		
4.2. Most important symptoms and	d 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.		
4.3. Indication of any immediate m	edical attention and special treatment needed		
Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.		
SECTION 5: Firefighting me	asures		
5.1. Extinguishing media			
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray.		
Unsuitable extinguishing media	Full water jet. DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.		
5.2. Special hazards arising from t	he 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. May cause sensitisation by skin contact.		
Hazardous combustion products	Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Phosphorus oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Isocyanates. Halogenated compounds.		
5.3. 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.		
SECTION 6: Accidental relea	ase measures		
6.1. Personal precautions, protect	ive 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.		
6.2. Environmental precautions			
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.		

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6.3. Methods and material for cont	ainment 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.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.
SECTION 7: Handling and st	torage

7.1. 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. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. 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.
7.2. Conditions for safe storage, ine	<u>Studing any incompatibilities</u>

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 in a dry place. Store in a closed container.

7.3. Specific end use(s)

Specific use(s) Aerosol.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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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	TWA: 1000 ppm
115-10-6	TWA: 1920 mg/m ³

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DN	Derived No Effect Level (DNEL)				
Reaction products of phosp	horyl trichloride and 2-meth	nyloxirane (1244733-77-4)			
Туре	Exposure route	Derived No Effect Level Safety factor (DNEL)			
worker Long term Systemic health effects	Inhalation	8.2 mg/m ³			
worker Short term Systemic health effects	Inhalation	22.6 mg/m ³			
worker Long term Systemic health effects	Dermal	2.91 mg/kg bw/d			

Dimethyl ether (115-10-6)			
Туре	Exposure route	Derived No Effect ((DNEL)	Level Safety factor
worker Long term Systemic health effects	Inhalation	1894 mg/m ³	

Halogenated polyetherpolyol (68441-62-3)					
Туре	Exposure route	Derived No Effect Level	Safety factor		
		(DNEL)			
worker	Inhalation	6 mg/m ³			
Long term					
Systemic health effects					
worker	Dermal	0.87 mg/kg bw/d			
Long term					
Systemic health effects					

Propylene carbonate (108-32-7)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	70.53 mg/m³	
worker Long term Local health effects	Inhalation	20 mg/m³	
w <mark>ork</mark> er Long term Systemic health effects	Dermal	20 mg/kg bw/d	
worker Long term Local health effects	Dermal	10 mg/cm ²	

Diethylene Glycol (111-46-6)			
Туре	Exposure route	Derived No Effect Level	Safety factor

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		(DNEL)	
worker	Inhalation	44 mg/m³	
Long term		-	
Systemic health effects			
worker	Inhalation	60 mg/m³	
Long term			
Local health effects			
worker	Dermal	43 mg/kg bw/d	
Long term			
Systemic health effects			

Reaction products of phosp	horyl trichloride and 2-meth	yloxirane (1244733-77-4) 🛛 🧖	
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	1.45 mg/m ³	
Consumer Short term Systemic health effects	Inhalation	5.6 mg/m ³	
Consumer Long term Systemic health effects	Dermal	1.04 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	0.52 mg/kg bw/d	
Consumer Short term Systemic health effects	Oral	2 mg/kg bw/d	

Dimethyl ether (115-10-6)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer	Inhalation	471 mg/m³	
Long term Systemic health effects			

Halogenated polyetherpolyo	68441-62-3)		
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	1.5 mg/m ³	
Consumer Long term Systemic health effects	Dermal	0.435 mg/kg bw/d	

Propylene carbonate (108-32-7)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	17.4 mg/m ³	
Consumer Long term Local health effects	Inhalation	10 mg/m³	
Consumer Long term	Dermal	10 mg/kg bw/d	

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			Systemic health effects
w/d	10	Oral	Consumer
			Long term
			Systemic health effects
			Systemic health effects

Diethylene Glycol (111-46-6)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	12 mg/m³	
Consumer Long term Local health effects	Inhalation	12 mg/m ³	
Consumer Long term Systemic health effects	Dermal	21 mg/kg	

Predicted No Effect Concentration (PNEC)

Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)		
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	
Freshwater - intermittent	0.51 mg/l	

Dimethyl ether (115-10-6)	
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

Halogenated polyetherpolyol (68441-62-3)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.52 mg/l
Marine water	0.052 mg/l
Freshwater sediment	2.6 mg/kg dry weight
Marine sediment	0.26 mg/kg dry weight
Sewage treatment plant	1 mg/l
Soil	0.215 mg/kg dry weight

Propylene carbonate (108-32-7)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.9 mg/l
Marine water	0.09 mg/l
Soil	0.81 mg/kg dry weight
Sewage treatment plant	7400 mg/l

Diethylene Glycol (111-46-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	10 mg/l
Marine water	1 mg/l
Sewage treatment plant	199 mg/l

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Freshwater sediment	20.9 mg/kg dry weight
Marine sediment	2.09 mg/kg dry weight
Soil	1.53 mg/kg dry weight
Freshwater - intermittent	10 mg/l

8.2. Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.			
Personal protective equipment				
Eye/face protection	Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.			
Hand protection	Wear suitable gloves. Glove thickness > 0.7mm. Butyl rubber. Nitrile rubber. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374			
Skin and body protection	Wear appropriate personal protective clothing to prevent skin contact.			
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.			

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical	and chemical properties	
Physical state	Liquid	
Appearance	Foam Aerosol	
Colour	Pink	
Odour	Characteristic.	
Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling	Not applicable, Aerosol .	Not applicable, Aerosol
range		
Flammability	Not applicable for liquids .	None known
Flammability Limit in Air		None known
Upper flammability or explosive	18.6 Vol%	
limits		
Lower flammability or explosive	1.7 Vol%	
limits		
Flash point	Not applicable, Aerosol .	Not applicable, Aerosol
Autoignition temperature	No data available	None known
Decomposition temperature		None known
рН	No data available	Not applicable. Insoluble in water.
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	
Water solubility	Immiscible in water.	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	6 - 7	bar @ 23 °C
Relative density	No data available	None known
Bulk Density	No data available	
Liquid Density	1.049 g/cm ³	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

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9.2. Other information

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Solid content (%) VOC content	No information available No data available 160.5 g/L European directive n°2010/75/UE
9.2.1. Information with regards to p Not applicable	hysical hazard classes
9.2.2. Other safety characteristics No information available Minimum Ignition Temperature (°C)	235
SECTION 10: Stability and re	activity
10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical	None.
impact Sensitivity to static discharge	Yes.
10.3. Possibility of hazardous reac	tions_
Possibility of hazardous reactions	Heating causes rise in pressure with risk of bursting.
10.4. Conditions to avoid	
Conditions to avoid	Product cures with moisture. Heat, flames and sparks. Excessive heat. Protect from moisture. Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.
10.5. Incompatible materials	
Incompatible materials	Strong acids. Strong bases. Strong oxidising agents. Water. Alcohols. Amines. Incompatible with oxidising agents.
10.6. Hazardous decomposition pr	oducts
Hazardous decomposition products	None under normal use conditions. Stable under recommended storage conditions.
SECTION 11: Toxicological i	nformation

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

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.

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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.
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.
Ingestion	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Symptoms related to the physical,	, chemical and toxicological characteristics
Symptoms	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.
Acute toxicity	
Numerical measures of toxicity	

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

ATEmix (oral)	3,291.70 mg/kg
ATEmix (dermal)	>5000 mg/kg
ATEmix (inhalation-gas)	>20000 ppm
ATEmix (inhalation-dust/mist)	3.27 mg/l
ATEmix (inhalation-vapour)	>20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Diphenylmethane-diisocyanate,	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg	1.5 mg/L (Rattus) 4 h
isomers and homologues		(Oryctolagus cuniculus)	
Reaction products of	LD <mark>50 > 500</mark> - 2000 mg/kg	LD50 >2000 mg/Kg (Rattus)	LD50 >7 mg/L (4h)(Rattus)
phosphoryl trichloride and	(males); LD50 = 632 mg/kg	(OECD 402)	(OECD 403)
2-methyloxirane	(females)(Rattus)		
Dimethyl ether	-	-	=164000 ppm (Rattus) 4 h
Isobutane	-	-	=658 mg/L (Rattus) 4 h
Halogenated polyetherpolyol	LD50 = 1337 mg/Kg (Rattus)	-	LC50 (4h) > 5.47 g/m ³ (Rat)
	(OECD 401)		
Propylene carbonate	LD50 > 5000 mg/kg (Rattus)	> 3000 mg/kg (Oryctolagus	-
	OECD 401	cuniculus)	
Diethylene Glycol	=1120 mg/kg bw (human)	= 11890 mg/kg (Oryctolagus	LC0 (4h)> 4600 mg/m ³ (
		cuniculus)	Rattus)

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

Skin corrosion/irritation

Causes skin irritation.

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit				Mild skin irritant
Acute Dermal					
Irritation/Corrosion					

Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)

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Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 404	Rabbit	Dermal			Non-irritant
Halogenated polyetherp	bolyol (68441-62-3 Species) Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal	Rabbit	Dermal		96 hours	Non-irritant

Serious eye damage/eye irritation Causes serious eye irritation.

Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)

OECD 405 Rabbit eye Non-irritant	Method	Species	Exposure route	Effective dose	Exposure time	Results
	OECD 405	Rabbit	еуе			Non-irritant

Halogenated polyetherpolyol (68441-62-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit				irritant
Acute Eye					
Irritation/Corrosion					

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin	Mouse		sensitising
Sensitisation: Local Lymph Node			
Assay			

Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin	Mouse		Did not cause sensitisation on
Sensitisation: Local Lymph Node			laboratory animals
Assay			

Germ cell mutagenicity

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

Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for

ingredients. Suspected of causing cancer.

Component Information

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Carcinogenic
Toxiony Carolinegomony Cladico		

Reproductive toxicity

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

STOT - single exposure

May cause respiratory irritation.

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STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

H373 - May cause damage to the following organs through prolonged or repeated exposure if inhaled: lungs; inhalation.

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Diphenylmethane-diiso		CL50 (96h)	-	EC50 (24H)		
cyanate, isomers and	>1640 mg/L	>1000 mg/L		>1000 mg/L		
homologues	Algae	Danio rerio		Daphnia magna		
9016-87-9	(scenedesmus					
	subspicatus)					
	(OECD 201)					
	EC50 (72h) = 82		-	LC50 (48h) =		
phosphoryl trichloride	mg/L	mg/L	r	131 mg/L		
and 2-methyloxirane	(Pseudokirchner			Daphnia magna		
1244733-77-4	iella	promelas) Static				
	subcapitata) OECD 201					
Directly diath an	OECD 201					
Dimethyl ether 115-10-6	-	LC50: >4.1g/L	-	> 4400 mg/L		
115-10-6		(96h, Poecilia reticulata)		(Daphnia) (NEN 6501)		
Hologopotod	ErC50 (96h) >			EC50 (48h): 520		
Halogenated polyetherpolyol	1000 mg/l	LC50: =560mg/L (96h, Poecilia	-	mg/l (Daphnia		
68441-62-3	(Pseudokirchner	· ·		• • •		
08441-02-3	iella	Teliculaia)		magna) OECD 202		
	subcapitata)			0200 202		
	OECD 201					
Propylene carbonate	ErC50 (72h): >	LC50 (96) h >	EC50 > 10000	EC50 (48h): >		
108-32-7	900mg/L	1000 mg/L	mg/L 17 h	1000mg/L		
100 02 1		(Cyprinus carpio,		(Daphnia		
	subspicatus,	67/548/EWG,		magna, OECD		
	OECD-201)	Annex V, C.1.)		202)		
Diethylene Glycol	-	LC50:	-	EC50:		
111-46-6		=75200mg/L		=84000mg/L		
		(96h,		(48h, Daphnia		
		Pimephales		`magna)		
		promelas)				

12.2. Persistence and degradability

Persistence and degradability

No information available.

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Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent	28 days	0% biodegradation	Not readily biodegradable
Biodegradability: Modified MITI Test		-	
(11)			

Halogenated polyetherpolyol (6844	1-62-3)		
Method	Exposure time	Value	Results
OECD Test No. 301D: Ready	28 days	16%	Not readily biodegradable
Biodegradability: Closed Bottle Test	-		
(TG 301 D)			

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Reaction products of phosphoryl trichloride and	2.68
2-methyloxirane	
Dimethyl ether	-0.18
Isobutane	2.8
Halogenated polyetherpolyol	3.3
Propylene carbonate	-0.41
Diethylene Glycol	-1.98

12.4. Mobility in soil

Mobility in soil No information available. 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Reaction products of phosphoryl trichloride and 2-methyloxirane	The substance is not PBT / vPvB
Dimethyl ether	The substance is not PBT / vPvB
Isobutane	The substance is not PBT / vPvB
Halogenated polyetherpolyol	The substance is not PBT / vPvB
Propylene carbonate	The substance is not PBT / vPvB
Diethylene Glycol	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

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	disposal.
Waste codes / waste designations according to EWC	16 05 05 gases in pressure containers other than those mentioned in 16 05 04. Waste codes should be assigned by the user based on the application for which the product was used.
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
Other information	Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Note:	Keep from freezing. The information shown here, may not always agree with the bill of lading shipping description for the material.
Land transport (ADR/RID) 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) Labels 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Classification code Tunnel restriction code Limited quantity (LQ)	UN1950 Aerosols 2 2.2 Not regulated UN1950, Aerosols, 2, (D) Not applicable 327, 625, 344, 190 5A (D) 1 L
 IMDG 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Marine pollutant 14.6 Special precautions for user Special Provisions Limited Quantity (LQ) EmS-No. 14.7 Maritime transport in bulk according to IMO instruments Transport in bulk according to 	UN1950 Aerosols 2.1 Not regulated UN1950, Aerosols, 2.1, (0°C c.c.) NP 63,190, 277, 327, 344, 381, 959 See SP277 F-D, S-U Annex II of MARPOL and the IBC Code Not applicable
Air transport (ICAO-TI / IATA-DGR) 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Limited quantity (LQ) ERG Code	UN1950 Aerosols, flammable 2.1 Not regulated UN1950, Aerosols, flammable, 2.1 Not applicable

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Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

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 >=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).

Chemical name	CAS No.	Restricted substance per REACH
		Annex XVII
Diphenylmethane-diisocyanate, isomers and homologues	9016-87-9	56
		74.
Diisocyantes		74

56

If product supplied to the general public with substance ≥0.1%, then gloves must be provided with the product

74 If product supplied to the industrial or professional users with total monomeric diisocyanates $\ge 0.1\%$, then its packaging must mention "As from 24 August 2023 adequate training is required before industrial or professional use"

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

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Diphenylmethane-diisocyanate, isomers and homologues 9016-87-9	RG 62
Dimethyl ether 115-10-6	RG 84
Isobutane 75-28-5	RG 84
Diethylene Glycol 111-46-6	RG 84

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV Flammable liquid (R10), EEC: refer to Annex III No. 1 (fire and explosion hazards) and § 7 paragraph 3

Water hazard class (WGK) obviously hazardous to water (WGK 2)

TRGS - 510 Storage Class

Storage Class 2B : Aerosols

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

Sweden

Occupational exposure limits AFS 2018:1

Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product. AFS 2012:3 AFS 2011: 19 - Chemical working environment risks (Amended and reprinted in AFS 2014: 43), §§37a-g

DenmarkRegistration number(s)(P-no.)No information availableMAL-Code1-3AT-Guide C.0.1 August 2007: Limit values for substances and materials

Norway Registration number(s) (PRN-no.) 655985

15.2. 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.

SECTION 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
- H280 Contains gas under pressure; may explode if heated
- 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
- H412 Harmful to aquatic life with long lasting effects

Notes relating to the identification, classification and labelling of substances

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.

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In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2) 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 LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm) ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IATA: International Air Transport Association ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG: International Maritime Dangerous Goods RID: Regulations concerning the International Carriage of Dangerous Goods by Rail Legend SECTION 8: Exposure controls/personal protection TWA (time-weighted average) STEL (Short Term Exposure Limit) TŴĂ STEL AGW Occupational exposure limit value BGW **Biological limit value** Ceiling Maximum limit value Skin designation Classification procedure Classification according to Regulation (EC) No. 1272/2008 [CLP] Method Used Acute oral toxicity Calculation method Acute dermal toxicity Calculation method Acute inhalation toxicity - gas Calculation method Acute inhalation toxicity - Vapour Calculation method Acute inhalation toxicity - dust/mist Calculation method Skin corrosion/irritation Calculation method Serious eye damage/eye irritation Calculation method Respiratory sensitisation Calculation method Skin sensitisation Calculation method mutagenicity Calculation method Carcinogenicity Calculation method Reproductive toxicity Calculation method STOT - single exposure Calculation method STOT - repeated exposure Calculation method Acute aquatic toxicity Calculation method Chronic aquatic toxicity Calculation method Aspiration hazard Calculation method Ozone Calculation method Flammable aerosol On basis of test data

Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

- European Chemicals Agency (ECHA) (ECHA_API)
- EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

International Uniform Chemical Information Database (IUCLID)

NIOSH (National Institute for Occupational Safety and Health)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

National Institute of Technology and Evaluation (NITE)

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Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set

Prepared By	Product Safety & Regulatory Affairs
Revision date	25-Sep-2023
Revision note	SDS sections updated 1
Training Advice	AS FROM 24 AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE INDUSTRIAL OR PROFESSIONAL USE For further information, please contact: https://www.safeusediisocyanates.eu/
Further information	No information available

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

