



Safety Data Sheet according to (EC) No 1907/2006 as amended

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Pattex PU Foam Fix & Fill

SDS No. : 608823
V001.0

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

1.1. Product identifier

Pattex PU Foam Fix & Fill

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

Intended use:

Foam, 1-component with propellant gas

1.3. Details of the supplier of the safety data sheet

Henkel Jebal Ali FZCO
PO Box 61341 - Jebel Ali
Dubai

Utd.Arab.Emir.

psra.imea@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or www.henkel-adhesives.com.

1.4. Emergency telephone number

HAAD Poison and Drug Information Center UAE, TOLL FREE TEL. NUMBER 800-424

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Flammable aerosols	Category 1
H222 Extremely flammable aerosol.	
H229 Pressurized container: May burst if heated.	
Skin irritation	Category 2
H315 Causes skin irritation.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Respiratory sensitization	Category 1
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Specific target organ toxicity - single exposure	Category 3
H335 May cause respiratory irritation.	
Target organ: respiratory tract irritation	
Carcinogenicity	Category 2
H351 Suspected of causing cancer.	
Effects on or via lactation	
H362 May cause harm to breast-fed children.	
Specific target organ toxicity - repeated exposure	Category 2
H373 May cause damage to organs through prolonged or repeated exposure.	
Chronic hazards to the aquatic environment	Category 4
H413 May cause long lasting harmful effects to aquatic life.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Diphenylmethane diisocyanate, isomers and homologues
alkanes, C14-17, chloro

Signal word:

Danger

Hazard statement:

H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H362 May cause harm to breast-fed children.
H373 May cause damage to organs through prolonged or repeated exposure.
H413 May cause long lasting harmful effects to aquatic life.

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Precautionary statement:	P102 Keep out of reach of children.
Precautionary statement: Prevention	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. P263 Avoid contact during pregnancy and while nursing. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/eye protection.
Precautionary statement: Storage	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Precautionary statement: Disposal	P501 Dispose of contents/container in accordance with national regulation.

2.3. Other hazards

Information according to XVII. 56 REACH

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.

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

Pregnant women should absolutely avoid inhalation and skin contact.

This mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number	content	Classification
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9		20- 25 %	Acute Tox. 4; Inhalation H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317 Resp. Sens. 1 H334 STOT SE 3 H335 Carc. 2 H351 STOT RE 2 H373
dimethyl ether 115-10-6	204-065-8	5- < 10 %	Flam. Gas 1A H220 Press. Gas Liquef. Gas H280
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4		5- < 10 %	Acute Tox. 4; Oral H302 Aquatic Chronic 3 H412
alkanes, C14-17, chloro 85535-85-9	287-477-0	5- < 10 %	Lact. H362 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC)
Propane 74-98-6	200-827-9	5- < 10 %	Flam. Gas 1A H220 Press. Gas H280
Isobutane 75-28-5	200-857-2	5- < 10 %	Flam. Gas 1A H220 Press. Gas Liquef. Gas H280
Butane, n- (< 0.1 % butadiene) 106-97-8	203-448-7	1- < 5 %	Press. Gas H280 Flam. Gas 1A H220

**For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.**

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.
Delayed effects possible after inhalation.

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Skin contact:

Fresh foam : Wipe off affected skin area immediately with a soft cloth and then remove residues with vegetable oil; apply skin care product. Cured foam can be removed only mechanically.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth, do not induce vomiting, consult a doctor.

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

SKIN: Redness, inflammation.

Causes serious eye irritation.

May cause an allergic skin reaction.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x) can be released.

In the event of fire, isocyanate vapors may be formed.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Ensure adequate ventilation.

Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

During processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.

Transport by automobile: leave the container wrapped in a cloth in the trunk, never in the passenger area.

Avoid skin and eye contact.

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

Remove any dirt that gets onto the skin with vegetable oil; skin care.

7.2. Conditions for safe storage, including any incompatibilities

For pressurized can: protect from direct sunshine and temperatures above 50°C.

Ensure that storage and workrooms are adequately ventilated.

Store in a cool, dry place.

Avoid strictly temperatures below - 20 °C and above + 50 °C.

Do not store or use near heat, spark, open flame or other sources of ignition.

Do not store together with oxidants.

Do not store together with flammable solutions.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Foam, 1-component with propellant gas

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Utd.Arab.Emir.

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Propane 74-98-6 [ALIPHATIC HYDROCARBON GASES ALKANE [C1-C4]]	800		Time Weighted Average (TWA):		AD TLV
Isobutane 75-28-5 [ALIPHATIC HYDROCARBON GASES ALKANE [C1-C4]]	800		Time Weighted Average (TWA):		AD TLV
Butane 106-97-8 [BUTANE]	600	1.450	Time Weighted Average (TWA):		DB OEL
Butane 106-97-8 [BUTANE]	800	1.900	Time Weighted Average (TWA):		GCC TLV
Butane 106-97-8 [BUTANE]	800	1.900	Time Weighted Average (TWA):		UAE OEL

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Occupational Exposure Limits

Valid for
Bharain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Butane 106-97-8 [BUTANE]	800	1.900	Time Weighted Average (TWA):		BH TLV
Butane 106-97-8 [BUTANE]	800	1.900	Time Weighted Average (TWA):		GCC TLV

Occupational Exposure Limits

Valid for
Egypt

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Butane 106-97-8 [Butane]	800	1.900	Time Weighted Average (TWA):		EG OEL

Occupational Exposure Limits

Valid for
Jordan

None

Occupational Exposure Limits

Valid for
Kuwait

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Propane 74-98-6 [PROPANE]	2.100		Harmful Concentration for risk to health and life:		KW OEL
Propane 74-98-6 [PROPANE]	2.500		Time Weighted Average (TWA):		KW OEL

Occupational Exposure Limits

Valid for
Israel

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 [ISOCYANATES]	0,005		Time Weighted Average (TWA):		IL OEL
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 [ISOCYANATES]	0,0025		Action level (AL):		IL OEL
Isocyanic acid, polymethylenepolyphenylene ester	0,02		Short-term exposure limit (STEL):		IL OEL

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9016-87-9 [ISOCYANATES]					
Isobutane 75-28-5 [Butane, all isomers]	1.000		Short-term exposure limit (STEL):		IL OEL
Butane 106-97-8 [Butane, all isomers]	1.000		Short-term exposure limit (STEL):		IL OEL

Occupational Exposure Limits

Valid for
Kenya

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 [ISOCYANATES, ALL (AS-NCO)]		0,07	Short term OEL-CL:		KE OEL-CL
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 [ISOCYANATES, ALL (AS-NCO)]		0,02	Time-weighted average (TWA) OEL-CL:		KE OEL-CL
Butane 106-97-8 [BUTANE]	600	1.430	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Butane 106-97-8 [BUTANE]	750	1.780	Short-term OEL-RL:		KE OEL-RL

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

Hand protection:

Use attached gloves. Perforation time < 5 minutes.

Eye protection:

Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	pressurized can liquid
Odor	brownish ether-like
Odour threshold	No data available / Not applicable
pH	Not applicable, Product reacts with water.
Initial boiling point	-42 °C (-43.6 °F)
Flash point	-104 °C (-155.2 °F); no method
Decomposition temperature	No data available / Not applicable
Vapour pressure (20 °C (68 °F))	0,5 MPa
Density (20 °C (68 °F))	1 g/cm ³
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (23 °C (73.4 °F); Solvent: Water)	Reacts slowly with water to liberate carbon dioxide gas.
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	
lower	0,4 % (V)
upper	32 % (V)
Partition coefficient: n-octanol/water	The product is not explosive.
Evaporation rate	No data available / Not applicable
Vapor density (20 °C)	No data available / Not applicable
Oxidising properties	1,7
	No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Pressure build-up in closed containers.
Reaction with water, alcohols, amines.
Reaction with water, formation of CO₂

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Temperatures over appr. 50 °C
Humidity

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10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

At higher temperatures isocyanate may be released.

Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

Cross-reactions with other isocyanate compounds are possible.

Inhalative toxicity:

In the event of protracted or repeated exposure, damage to health cannot be excluded.

The toxicity of the product is due to its narcotic effect after inhalation.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Isocyanic acid, polymethylenepolyphenyl ene ester 9016-87-9	LD50	> 10.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	LD50	632 mg/kg	oral		rat	EU Method B.1 (Acute Toxicity (Oral))
alkanes, C14-17, chloro 85535-85-9	LD50	> 4.000 mg/kg	oral		rat	not specified

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
dimethyl ether 115-10-6	LC50	164000 ppm	gas	4 h	rat	not specified
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	LC50	> 7 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Propane 74-98-6	LC50	> 800000 ppm	gas	15 min	rat	not specified
Isobutane 75-28-5	LC50	260200 ppm	gas	4 h	mouse	not specified
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	274200 ppm	gas	4 h	rat	not specified

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Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Isocyanic acid, polymethylenepolyphenyl ene ester 9016-87-9	LD50	> 9.400 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)
alkanes, C14-17, chloro 85535-85-9	LD50	> 2.800 mg/kg	dermal		rat	not specified

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Isocyanic acid, polymethylenepolyphenyl ene ester 9016-87-9	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
alkanes, C14-17, chloro 85535-85-9	slightly irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Isocyanic acid, polymethylenepolyphenyl ene ester 9016-87-9	sensitising	Skin sensitisa tion	guinea pig	OECD Guideline 406 (Skin Sensitisation)

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Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
dimethyl ether 115-10-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
dimethyl ether 115-10-6	negative	inhalation: gas		Drosophila melanogaster	equivalent or similar to OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Dros. melanog.)
Propane 74-98-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane 74-98-6	negative			Drosophila melanogaster	not specified
	negative	inhalation: gas		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isobutane 75-28-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Isobutane 75-28-5	negative	oral: feed		Drosophila melanogaster	not specified
	negative	inhalation: gas		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	negative			Drosophila melanogaster	not specified
	negative	inhalation: gas		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity:

Hazardous components CAS-No.	Result	Species	Sex	Exposure time/Frequency of treatment	Route of application	Method
dimethyl ether 115-10-6	not carcinogenic	rat	male/female	2 y 6 h/d, 5 d/w	inhalation	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

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Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
dimethyl ether 115-10-6	NOAEL P = 2.5 %	other inhalation	2 y	rat	other guideline:
Propane 74-98-6	NOAEL P = 21,6 mg/l NOAEL F1 = 21,6 mg/l	screening inhalation: gas		rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Isobutane 75-28-5	NOAEL P = 21,4 mg/l NOAEL F1 = 21,4 mg/l	screening inhalation: gas		rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	NOAEL P = 21,4 mg/l NOAEL F1 = 21,4 mg/l	screening inhalation: gas		rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Isocyanic acid, polymethylenepolyphenyl ene ester 9016-87-9	NOAEL=0,0002 mg/l	inhalation: aerosol	2 y 6 h per d, 5 d per week	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
dimethyl ether 115-10-6	NOAEL=2.5 %	inhalation	2 y 6 h/d; 5 d/w	rat	equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies)
Propane 74-98-6		inhalation: gas	28 d 6 h/d, 7 d/w	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Isobutane 75-28-5	NOAEL=9000 ppm	inhalation: gas	28 d 6 h/d, 7 d/w	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Butane, n- (< 0.1 % butadiene) 106-97-8		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

Ecotoxicity

Acute invertebrate toxicity: EC50 > 100 mg product/l.

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Aquatic plant/algae toxicity:

EC50 > 100 mg product/l.

Alga, Growth Inhibition test OECD 201.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	LC50	> 1.000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	EC50	> 1.000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	EC50	> 1.640 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	EC50	> 100 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	NOEC	10 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
dimethyl ether 115-10-6	LC50	> 4.000 mg/l	Fish	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
dimethyl ether 115-10-6	EC50	> 4.000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
dimethyl ether 115-10-6	EC50	> 1.000 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
dimethyl ether 115-10-6	EC10	> 1.600 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test) other guideline:
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	LC50	56,2 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	EC50	131 mg/l	Daphnia	48 h	Daphnia magna	not specified
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	EC50	82 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	NOEC	13 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	EC 50	784 mg/l	Bacteria	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	NOEC	32 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
alkanes, C14-17, chloro 85535-85-9	NOEC	3,4 mg/l	Fish	20 d	Oryzias latipes	OECD Guideline 212 (Fish, Short- term Toxicity Test)

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alkanes, C14-17, chloro 85535-85-9	LC50	> 5.000 mg/l	Fish	96 h	Alburnus alburnus	on Embryo and Sac-Fry Stages)
	EC50	0,0059 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 203 (Fish, Acute Toxicity Test)
alkanes, C14-17, chloro 85535-85-9	EC50	> 3,2 mg/l	Algae	72 h	not specified	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
	NOEC	0,1 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
alkanes, C14-17, chloro 85535-85-9	EC50	> 2.000 mg/l	Bacteria	3 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
alkanes, C14-17, chloro 85535-85-9	NOEC	0,01 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	27,98 mg/l	Fish	96 h		OECD 211 (Daphnia magna, Reproduction Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	14,22 mg/l	Daphnia	48 h		not specified
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	7,71 mg/l	Algae	96 h		not specified

12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	not inherently biodegradable	aerobic	0 %	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))
	not readily biodegradable.	not specified	0 %	OECD 301 A - F
dimethyl ether 115-10-6	readily biodegradable	aerobic	> 60 %	OECD 301 A - F
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	not readily biodegradable.	aerobic	14 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
alkanes, C14-17, chloro 85535-85-9	not inherently biodegradable	aerobic	90 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
	not readily biodegradable.	aerobic	> 13 - 66 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Propane 74-98-6	readily biodegradable	aerobic	> 60 %	OECD 301 A - F
Isobutane 75-28-5	readily biodegradable	aerobic	71,43 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	readily biodegradable	aerobic	> 60 %	OECD 301 A - F

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 dimethyl ether 115-10-6	0,07	200		Cyprinus carpio	25 °C	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) QSAR (Quantitative Structure Activity Relationship)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4 Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	2,68	0,8 - < 14	42 d	Cyprinus carpio	30 °C	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish) EU Method A.8 (Partition Coefficient)
alkanes, C14-17, chloro 85535-85-9 alkanes, C14-17, chloro 85535-85-9	7	349	35 d	Oncorhynchus mykiss		OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) other (measured)
Isobutane 75-28-5	2,88				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Butane, n- (< 0.1 % butadiene) 106-97-8	2,31				20 °C	other (measured)

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
dimethyl ether 115-10-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
alkanes, C14-17, chloro 85535-85-9	Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Propane 74-98-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Isobutane 75-28-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Butane, n- (< 0.1 % butadiene) 106-97-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

160504 gases in pressure containers (including halons) containing dangerous substances

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SECTION 14: Transport information

14.1. UN number

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

14.3. Transport hazard class(es)

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

14.4. Packing group

ADR
RID
ADN
IMDG
IATA

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (D)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

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SECTION 15: Regulatory information

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

No information available:

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- 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.
- H362 May cause harm to breast-fed children.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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