

EU safety data sheet

Trade name: PISTOLENSCHAUM

Product no.: BS-4

Current version : 2.1.0, issued: 03.04.2025

Replaced version: 2.0.0, issued: 26.03.2024

Region: GER

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

1.1 Product identifier

Trade name

PISTOLENSCHAUM

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

Relevant identified uses of the substance or mixture

Chemical product for building, modernising and repairing.

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

LUGATO GmbH & Co. KG

Großer Kamp 1

D-22885 Barsbüttel

Telephone no. +49 (0)40 694 07-0

Fax no. +49 (0)40 694 07-109 + 110

Advice on Safety Data Sheet

sicherheit@lugato.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aerosol 1; H222 - H229

Aquatic Chronic 4; H413

Carc. 2; H351

Eye Irrit. 2; H319

Lact.; H362

Resp. Sens. 1; H334

Skin Irrit. 2; H315

Skin Sens. 1; H317

STOT RE 2; H373

STOT SE 3; H335

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS02



GHS07



GHS08

Signal word

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Danger

Hazardous component(s) to be indicated on label:

diphenylmethanediisocyanate, isomeres and homologues
chlorinated paraffins, C14-17

Hazard statement(s)

H222	Extremely flammable aerosol.
H229	Pressurised 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.

Precautionary statement(s)

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.
P263	Avoid contact during pregnancy and while nursing.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
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 a facility in accordance with local and national regulations.

Supplemental label elements

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
'As from 24 August 2023 adequate training is required before industrial or professional use'

2.3 Other hazards

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The substances of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Preparation containing hazardous components given in the following list.

Hazardous ingredients

No	Substance name	Additional information	
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	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	Reaction products of phosphoryl trichloride and methyloxiran			
	1244733-77-4 807-935-0 - 01-2119486772-26	Acute Tox. 4; H302 Aquatic Chronic 3; H412	>= 10,00 - < 25,00	wt%
2	diphenylmethanediisocyanate, isomeres and homologues			
	9016-87-9 - 615-005-00-9 -	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Acute Tox. 4*; H332 Resp. Sens. 1; H334 STOT SE 3; H335 Carc. 2; H351 STOT RE 2*; H373**	>= 10,00 - < 25,00	wt%
3	dimethyl ether			
	115-10-6 204-065-8 603-019-00-8 01-2119472128-37	Flam. Gas 1A; H220 Press. Gas; H280	>= 5,00 - < 10,00	wt%
4	isobutane			
	75-28-5 200-857-2 601-004-00-0 01-2119485395-27	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 5,00 - < 10,00	wt%
5	propane			
	74-98-6 200-827-9 601-003-00-5 01-2119486944-21	Flam. Gas 1A; H220 Press. Gas liq.; H280	< 5,00	wt%
6	chlorinated paraffins, C14-17			
	85535-85-9 287-477-0 602-095-00-X 01-2119519269-33	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH066 Lact.; H362	< 5,00	wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

(* , ** , *** , ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	C, 2	Resp. Sens. 1; H334: C >= 0,1% Skin Irrit. 2; H315: C >= 5% Eye Irrit. 2; H319: C >= 5% STOT SE 3; H335: C >= 5%	-	-
3	U	-	-	-
4	C, U	-	-	-
5	U	-	-	-
6	-	-	M = 10	M = 10

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
1	632 mg/kg bodyweight		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

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After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Breathing difficulties; Coughing; Allergic symptoms

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder; Carbon dioxide; Water spray jet; Foam

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; chlorine compounds; Hydrogen cyanide (HCN); Nitrogen oxides (NOx); Exposure to heat may cause bursting of the aerosol packagings.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Cool endangered containers with water spray jet. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Keep away from ignition sources.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Material sets hard automatically in air. Allow to set, pick up mechanically. Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation. Observe safety references and application instructions mentioned on can. Keep away from sources of ignition! Refer to protective measures listed in section 8.

General protective and hygiene measures

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Keep away from foodstuffs and beverages. Do not eat, drink or smoke during work time. Avoid contact with eyes and skin. Wash hands before breaks and after work. Do not inhale aerosols.

Advice on protection against fire and explosion

Forms explosive gas mixtures in combination with air. Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from direct sunlight.

Requirements for storage rooms and vessels

Keep only in the original container. Storage rooms must be properly ventilated. Observe TRG 300 No. 2.8 - 2.9 and 6.1 - 6.4.4.

Stoarge Class according TRGS 510

2B Aerosol dispensers and lighters

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	
	TRGS 905		
	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion)		
	Carcinogenic (C)	2	
	Mutagenic (M)	-	
	May impair fertility (RF)	-	
	May cause harm to the unborn child (RE)	-	
	Comments	b	
	TRGS 900		
	pMDI		
	WEL long-term (8-hr TWA reference period)	0,05 E	mg/m ³
	Ceiling Limit	1; =2=(I)	
	Skin resorption / sensibilisation	Sah	
	Notes	Y	
	2024/869/EC		
	Diisocyanates (measured as NCO (10))		
	WEL long-term (8-hr TWA reference period)	0,006	mg/m ³ 12 ppm
	Skin resorption / sensibilisation	Skin (8) Dermal and respiratory sensitisation (9)	
	Comments	A limit value of 10 µg NCO/m3 in relation to a reference period of 8 hours and a short-term exposure limit value of 20 µg NCO/m3 shall apply until 31 December 2028.	
2	dimethyl ether	115-10-6	204-065-8
	TRGS 900		
	Dimethylether		
	WEL long-term (8-hr TWA reference period)	1900	mg/m ³ 1000 ml/m ³
	Ceiling Limit	8(II)	
	2000/39/EC		
	Dimethylether		
	WEL long-term (8-hr TWA reference period)	1920	mg/m ³ 1000 ppm
3	isobutane	75-28-5	200-857-2
	TRGS 900		
	Isobutan		
	WEL long-term (8-hr TWA reference period)	2400	mg/m ³ 1000 ml/m ³
	Ceiling Limit	4(II)	
4	propane	74-98-6	200-827-9
	TRGS 900		

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	Propan				
	WEL long-term (8-hr TWA reference period)	1800	mg/m ³	1000	ml/m ³
	Ceiling Limit	4(II)			
5	chlorinated paraffins, C14-17	85535-85-9		287-477-0	
	TRGS 900				
	Chloralkane, C14-17 (chlorierte Paraffine C14-17)				
	WEL long-term (8-hr TWA reference period)	6 E	mg/m ³	0,3 E	ml/m ³
	Ceiling Limit	8(II)			
	Skin resorption / sensibilisation	H			
	Notes	Y			

DNEL, DMEL and PNEC values

DNEL values (worker)

DNEL values (worker)					
No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Reaction products of phosphoryl trichloride and methyloxiran			1244733-77-4 807-935-0	
	dermal	Long term (chronic)	systemic	2,91	mg/kg/day
	inhalative	Long term (chronic)	systemic	8,2	mg/m³
	inhalative	Short term (acut)	systemic	22,6	mg/m³
2	dimethyl ether			115-10-6 204-065-8	
	inhalative	Long term (chronic)	systemic	1894	mg/m³
3	chlorinated paraffins, C14-17			85535-85-9 287-477-0	
	dermal	Long term (chronic)	systemic	47,9	mg/kg/day
	inhalative	Long term (chronic)	systemic	6,7	mg/m³

DNEL value (consumer)

DNEL Value (Consumer)					
No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Reaction products of phosphoryl trichloride and methyloxiran			1244733-77-4 807-935-0	
	oral	Long term (chronic)	systemic	0,52	mg/kg/day
	oral	Short term (acut)	systemic	2	mg/kg/day
	dermal	Long term (chronic)	systemic	1,04	mg/kg/day
	inhalative	Long term (chronic)	systemic	1,45	mg/m³
	inhalative	Short term (acut)	systemic	5,6	mg/m³
2	dimethyl ether			115-10-6 204-065-8	
	inhalative	Long term (chronic)	systemic	471	mg/m³
3	chlorinated paraffins, C14-17			85535-85-9 287-477-0	
	oral	Long term (chronic)	systemic	0,58	mg/kg/day
	dermal	Long term (chronic)	systemic	28,75	mg/kg/day
	inhalative	Long term (chronic)	systemic	2,00	mg/m³

PNEC values

PNEC values			
No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	Reaction products of phosphoryl trichloride and methyloxiran		1244733-77-4 807-935-0
	water	fresh water	0,32 mg/L
	water	Aqua intermittent	0,51 mg/L
	water	marine water	0,032 mg/L
	water	fresh water sediment	11,5 mg/kg dry weight
	water	marine water sediment	1,15 mg/kg dry weight
	soil	-	0,34 mg/kg dry weight

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	sewage treatment plant	-	19,1	mg/L
	secondary poisoning	-	11,6	mg/kg food
2	dimethyl ether		115-10-6 204-065-8	
	water	fresh water	0,155	mg/L
	water	Aqua intermittent	1,549	mg/L
	water	marine water	0,016	mg/L
	water	fresh water sediment	0,681	mg/kg dry weight
	water	marine water sediment	0,069	mg/kg dry weight
	soil	-	0,045	mg/kg dry weight
	sewage treatment plant	-	160	mg/L
3	chlorinated paraffins, C14-17		85535-85-9 287-477-0	
	water	fresh water	1,00	µg/L
	water	marine water	0,2	µg/L
	water	fresh water sediment	13,00	mg/kg
	with reference to: dry weight			
	water	marine water sediment	2,60	mg/kg
	with reference to: dry weight			
	soil	-	11,9	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	80,00	mg/L
	secondary poisoning	-	10,00	mg/kg
	with reference to: food			

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. Short term: filter apparatus, Filter A/P2

Eye / face protection

Safety glasses (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	nitrile rubber		
Material thickness		0,1	mm
Breakthrough time	>		
Appropriate Material	viton		
Material thickness		0,4	mm
Breakthrough time		30	min

Other

Light protective clothing

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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State of aggregation			
liquid			
Form			
Aerosol			
Colour			
various			
Odour			
No data available			
pH value			
No data available			
Boiling point / boiling range			
No data available			
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
no data available			
Ignition temperature			
No data available			
Oxidising properties			
none			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
Value	5100 hPa		
Source	manufacturer		
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	appr.	1,0	g/cm³
Reference temperature		23	°C
Source	manufacturer		
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
log Pow		2,68	
Reference temperature		30	°C
with reference to	pH: 7.1		
Method	EU Method A.8		
Source	ECHA		

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2	isobutane	75-28-5	200-857-2
log Pow		2,80	
Reference temperature		20	°C
with reference to	pH 7		
Source	ECHA		
3	propane	74-98-6	200-827-9
log Pow		appr. 1,8	
Method	QSAR		
Source	ECHA		

Kinematic viscosity

No data available

Particle characteristics

No data available

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

In case of fire: see section 5.

SECTION 11: Toxicological information

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

Acute oral toxicity (result of the ATE calculation for the mixture)	
Product Name	
PISTOLENSCHAUM	
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
LD50		632	mg/kg bodyweight
Species	rat (female)		
Method	67/548/EEC, B.1		
Source	ECHA		
2	chlorinated paraffins, C14-17	85535-85-9	287-477-0
LD50		> 4000	mg/kg bodyweight
Species	rat		

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Source	ECHA
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Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
Product Name	
PISTOLENSCHAUM	
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
LC50	>	7	mg/l
Duration of exposure		4	h
State of aggregation	mist		
Species	rat		
Method	OECD 403		
Source	ECHA		
2	dimethyl ether	115-10-6	204-065-8
LC50		164000	ppmV
Duration of exposure		4	h
State of aggregation	Gas		
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	isobutane	75-28-5	200-857-2
LC50		520400	ppmV
Duration of exposure		2	h
State of aggregation	Gas		
Species	mouse		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4	propane	74-98-6	200-827-9
LC50	>	800000	ppmV
Duration of exposure		0,25	h
State of aggregation	Gas		
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

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Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
Type of examination		in vitro gene mutation study in mammalian cells	
Species		Mouse lymphoma cells	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		DNA-Damage	
Species		rat	
Method		OECD 482	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus	
Species		mouse	
Method		OECD 474	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	dimethyl ether	115-10-6	204-065-8
Type of examination		in vitro gene mutation study in bacteria	
Species		Salmonella typhimurium / Escherichia coli	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		In vitro Mammalian Chromosomal Aberration Test	
Species		Human Lymphocyte	
Method		OECD 473	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		in vitro gene mutation study in mammalian cells	
Species		Chinese hamster Ovary (CHO)	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	isobutane	75-28-5	200-857-2
Type of examination		in vitro gene mutation study in bacteria	
Species		Salmonella typh. TA98, TA100, TA1535, TA1537, TA1538	
Method		Value taken from the literature	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

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Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
Route of exposure		oral	
Type of examination		2 generation study	
Species		rat	
Method		OECD 416	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		oral	
Type of examination		Prenatal Developmental Toxicity Study	
Species		rabbit	
Method		OECD 414	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	dimethyl ether	115-10-6	204-065-8
Route of exposure		inhalational	
Type of examination		Repeated Dose Inhalation Toxicity	
Species		rat	
Method		OECD 452	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		inhalational	
NOAEL		40000	ppm
Type of examination		Prenatal Developmental Toxicity Study	
Species		rat	
Method		OECD 414	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	isobutane	75-28-5	200-857-2
Route of exposure		inhalational	
NOAEC		9000	ppm
Type of examination		Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
4	propane	74-98-6	200-827-9
Route of exposure		inhalational	
NOAEC		12000	ppm
Type of examination		Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	dimethyl ether	115-10-6	204-065-8
Route of exposure		inhalational	
NOAEC		47106	mg/m ³
Type of examination		Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
Species		rat	

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Method	OECD 453
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

STOT - single exposure	
Product Name	
PISTOLENSCHAUM	
Source	manufacturer
Effects	May cause respiratory irritation.

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
Route of exposure		oral	
Species		rat	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		inhalational	
Species		rabbit	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	dimethyl ether	115-10-6	204-065-8
Route of exposure		inhalational	
Species		rat	
Method		OECD 452	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	isobutane	75-28-5	200-857-2
Route of exposure		inhalational	
		9000	ppm
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
4	propane	74-98-6	200-827-9
Route of exposure		inhalational	
LOAEC		12000	ppm
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Aspiration hazard
No data available

Endocrine disrupting properties
No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure
In case of overexposure – especially during spraying applications without observed safety measures – danger of eye, nose, throat and airways irritation. Delayed appearance of difficulties and development of hypersensitivity (difficult breathing, coughing, and asthma) are possible. There may be hypersensitive persons who develop reactions following exposure to very low concentrations of isocyanates, even below the threshold limit value at the workplace. Tanning and irritating effects are possible at prolonged skin contact.

11.2 Information on other hazards

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

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Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
LC50		51	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		
2	dimethyl ether	115-10-6	204-065-8
LC50	>	4100	mg/l
Duration of exposure		96	h
Species	Poecilia reticulata		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	chlorinated paraffins, C14-17	85535-85-9	287-477-0
LC50	>	5000	mg/l
Duration of exposure		96	h
Species	Alburnus Alburnus		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)	
Product Name	
PISTOLENSCHAUM	
Evaluation/classification	Based on available data, the classification criteria are met.

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
EC50		131	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
2	dimethyl ether	115-10-6	204-065-8
EC50	>	4400	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	chlorinated paraffins, C14-17	85535-85-9	287-477-0
EC50		0,006	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)	
No data available	

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
EC50		82	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)	
No data available	

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Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
EC50		784	mg/l
Duration of exposure		3	h
Species		activated sludge	
Method		ISO 8192	
Source		ECHA	
2	dimethyl ether	115-10-6	204-065-8
EC10		>	1600 mg/l
Species		Pseudomonas putida	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
Type		aerobic biodegradation	
Value		14	%
Duration		28	d
Method		EU C-4.D	
Source		ECHA	
Evaluation		not readily biodegradable	
2	dimethyl ether	115-10-6	204-065-8
Type		aerobic biodegradation	
Value		5	%
Duration		28	d
Method		OECD 301 D	
Source		ECHA	
Evaluation		not readily biodegradable	
3	isobutane	75-28-5	200-857-2
Type		aerobic biodegradation	
Value		50	%
Duration		3,1	d
Method		QSAR	
Source		ECHA	
Evaluation		readily biodegradable	
4	propane	74-98-6	200-827-9
Type		aerobic biodegradation	
Value		50	%
Duration		3	d
Method		QSAR	
Source		ECHA	
Evaluation		readily biodegradable	

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0
BCF		0,8 - 14	
Species		Cyprinus carpio	
Method		OECD 305 C	
Source		ECHA	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	Reaction products of phosphoryl trichloride and methyloxiran	1244733-77-4	807-935-0

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log Pow	2,68	
Reference temperature	30	°C
with reference to	pH: 7.1	
Method	EU Method A.8	
Source	ECHA	
2	isobutane	75-28-5 200-857-2
log Pow	2,80	
Reference temperature	20	°C
with reference to	pH 7	
Source	ECHA	
3	propane	74-98-6 200-827-9
log Pow	appr. 1,8	
Method	QSAR	
Source	ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
Product Name	
PISTOLENSCHAUM	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The substances of this product are not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

Other adverse effects
Global warming potential
Assessment report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)
Ingredient:
Propane:
Global warming potential within 20 years: 0.072
Global warming potential within 100 years: 0.02
Global warming potential within 500 years: 0.006
Atmospheric lifetime: 0.036 a
Radiation efficiency: 0 Wm2ppb
Further information: Various bonds

12.8 Other information

Other information
Do not discharge into drains or waters and do not dispose of in public landfills.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Hand over only completely emptied aerosol cans for valuable substance recovery!

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Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Disposal should be observed in conformity with the Regional Waste Disposal Authority.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN	UN1950
IMDG	UN1950
ICAO-TI / IATA	UN1950

14.2 UN proper shipping name

ADR/RID/ADN	AEROSOLS
IMDG	AEROSOLS
ICAO-TI / IATA	Aerosols, flammable

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	2
Label	2.1
Classification code	5F
Tunnel restriction code	D
IMDG - Class	2
Label	2.1
Comments (IMDG)	The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II at least.
ICAO-TI / IATA - Class	2.1
Label	2.1
Comments (ICAO-TI / IATA)	The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II (IATA-Regulation 5.2 PI203).

14.4 Packing group

ADR/RID/ADN	-
IMDG	-
ICAO-TI / IATA	-

14.5 Environmental hazards

EmS	F-D, S-U
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14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation ((EC) 1907/2006) that are placed on the list of candidates considered for inclusion in annex XIV (substances subject to Authorisation).

No	Substance name	CAS no.	EC no.
1	chlorinated paraffins, C14-17	85535-85-9	287-477-0

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Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-	56, 74, 75, 77

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category: E1, P3a

If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)

VOC content 20,1 %

Other regulations

Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

National regulations

Water Hazard Class (Germany)

Class

2

Source

Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

Other regulations

Observe TRG 300! BGI 524 "Merkblatt: Polyurethan-Herstellung und Verarbeitung/Isocyanate"; GISCODE: PU 80

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H222 - H229	Extremely flammable aerosol.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
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.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
U	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.

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2 The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 726342