

# EU safety data sheet

**Trade name:** PISTOLENSCHAUM

**Product no.:** BS-4

**Current version :** 1.0.0, issued: 14.12.2023

**Replaced version:** -, issued: -

**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

### 1.4 Emergency telephone number

No data available.

## 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

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**

Danger

**Hazardous component(s) to be indicated on label:**

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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.

## Hazard statements (EU)

EUH204 Contains isocyanates. May produce an allergic reaction.

## 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

No data available.

## 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	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	Reaction products of phosphoryl trichloride and methyloxiran		

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	1244733-77-4 807-935-0 - 01-2119486772-26	Acute Tox. 4; H302 Aquatic Chronic 3; H412	>= 10,00 - < 25,00	wt%
<b>2</b>	<b>diphenylmethanediisocyanate, isomeres and homologues</b>			
	9016-87-9 - - -	Carc. 2; H351 Acute Tox. 4; H332 STOT SE 3; H335 STOT RE 2; H373 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 10,00 - < 25,00	wt%
<b>3</b>	<b>dimethyl ether</b>			
	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%
<b>4</b>	<b>isobutane</b>			
	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%
<b>5</b>	<b>propane</b>			
	74-98-6 200-827-9 601-003-00-5 01-2119486944-21	Flam. Gas 1A; H220 Press. Gas liq.; H280	< 5,00	wt%
<b>6</b>	<b>chlorinated paraffins, C14-17</b>			
	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 for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
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)".

No	Route, target organ, concrete effect
2	H373 inhalational; hearing; -

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
1	632 mg/kg bodyweight		
2			11 mg/l

## 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.

#### After inhalation

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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**

Call a doctor immediately. 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

No data available.

## 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); Hydrogen chloride (HCl); 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.

### Storage 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	
	<b>TRGS 905</b>		
	Techn. ("Polymeres") MDI (pMDI) (in Form atemperbarer Aerosole, A-Fraktion)		
	Carcinogenic ( C )	2	
	Mutagenic ( M )	-	
	May impair fertility ( RF )	-	
	May cause harm to the unborn child ( RE )	-	
	Comments	b	
	<b>TRGS 900</b>		
	pMDI		
	WEL long-term (8-hr TWA reference period)	0,05 E	mg/m <sup>3</sup>
	Ceiling Limit	1; =2=(I)	
	Skin resorption / sensibilisation	Sah	
	Notes	Y	
2	dimethyl ether	115-10-6	204-065-8
	<b>TRGS 900</b>		
	Dimethylether		
	WEL long-term (8-hr TWA reference period)	1900	mg/m <sup>3</sup> 1000 ml/m <sup>3</sup>
	Ceiling Limit	8(II)	
	<b>2000/39/EC</b>		
	Dimethylether		
	WEL long-term (8-hr TWA reference period)	1920	mg/m <sup>3</sup> 1000 ppm
3	isobutane	75-28-5	200-857-2
	<b>TRGS 900</b>		
	Isobutan		
	WEL long-term (8-hr TWA reference period)	2400	mg/m <sup>3</sup> 1000 ml/m <sup>3</sup>
	Ceiling Limit	4(II)	
4	propane	74-98-6	200-827-9
	<b>TRGS 900</b>		
	Propan		
	WEL long-term (8-hr TWA reference period)	1800	mg/m <sup>3</sup> 1000 ml/m <sup>3</sup>
	Ceiling Limit	4(II)	
5	chlorinated paraffins, C14-17	85535-85-9	287-477-0
	<b>TRGS 900</b>		
	Chloralkane, C14-17 (chlorierte Paraffine C14-17)		

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WEL long-term (8-hr TWA reference period)	6 E	mg/m <sup>3</sup>	0,3 E	ml/m <sup>3</sup>
Ceiling Limit	8(II)			
Skin resorption / sensibilisation	H			
Notes	Y			

## DNEL, DMEL and PNEC values

### DNEL values (worker)

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

### DNEL value (consumer)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	<b>Reaction products of phosphoryl trichloride and methyloxiran</b>			<b>1244733-77-4</b> <b>807-935-0</b>
	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/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	5,6 mg/m <sup>3</sup>
2	<b>dimethyl ether</b>			<b>115-10-6</b> <b>204-065-8</b>
	inhalative	Long term (chronic)	systemic	471 mg/m <sup>3</sup>
3	<b>chlorinated paraffins, C14-17</b>			<b>85535-85-9</b> <b>287-477-0</b>
	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/m <sup>3</sup>

### PNEC values

No	Substance name	CAS / EC no		
	ecological compartment	Type	Value	
1	<b>Reaction products of phosphoryl trichloride and methyloxiran</b>			<b>1244733-77-4</b> <b>807-935-0</b>
	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	
	sewage treatment plant	-	19,1 mg/L	
	secondary poisoning	-	11,6 mg/kg food	
2	<b>dimethyl ether</b>			<b>115-10-6</b> <b>204-065-8</b>
	water	fresh water	0,155 mg/L	

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	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	<b>chlorinated paraffins, C14-17</b>		<b>85535-85-9 287-477-0</b>	
	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		7	mm
Breakthrough time	>	480	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

<b>State of aggregation</b>	liquid
<b>Form</b>	Aerosol
<b>Colour</b>	No data available

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<b>Odour</b>			
characteristic			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
No data available			
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
no data available			
<b>Ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
none			
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
Value	5100	hPa	
Source	manufacturer		
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	1,005	g/cm <sup>3</sup>	
Reference temperature	25	°C	
Source	manufacturer		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
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 with reference to Method	30	°C
	Source	pH: 7.1 EU Method A.8 ECHA	
2	isobutane	75-28-5	200-857-2
	log Pow	2,80	
	Reference temperature with reference to Method	20	°C
	Source	pH 7 ECHA	
3	propane	74-98-6	200-827-9
	log Pow	appr.	1,8



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Method	QSAR
Source	ECHA

<b>Kinematic viscosity</b>
No data available

<b>Particle characteristics</b>
No data available

## 9.2 Other information

<b>Other information</b>
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

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

Chlorine compounds; Hydrogen chloride (HCl); Hydrogen cyanide (HCN); Nitrous oxides (NOx); Carbon monoxide and carbon dioxide

## 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)	
No	Product Name
1	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	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-
LD50		> 10000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	manufacturer		
3	chlorinated paraffins, C14-17	85535-85-9	287-477-0
LD50		> 4000	mg/kg bodyweight

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Species	rat
Source	ECHA

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		
2	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-
LD50	>	9400	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	manufacturer		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	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	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-
LC50		11	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	manufacturer		
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	
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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.	

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	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.	

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	

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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.		
<b>2</b>	<b>isobutane</b>	<b>75-28-5</b>	<b>200-857-2</b>
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.		
<b>3</b>	<b>propane</b>	<b>74-98-6</b>	<b>200-827-9</b>
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.		
<b>Carcinogenicity</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>Reaction products of phosphoryl trichloride and methyloxiran</b>	<b>1244733-77-4</b>	<b>807-935-0</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>STOT - single exposure</b>			
<b>No</b>	<b>Product Name</b>		
<b>1</b>	<b>PISTOLENSCHAUM</b>		
Source	manufacturer		
Effects	May cause respiratory irritation.		
<b>STOT - repeated exposure</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>Reaction products of phosphoryl trichloride and methyloxiran</b>	<b>1244733-77-4</b>	<b>807-935-0</b>
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.		
<b>2</b>	<b>isobutane</b>	<b>75-28-5</b>	<b>200-857-2</b>
Route of exposure	inhalational		
NOAEC	9000 ppm		
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

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3	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

## 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

### Endocrine disrupting properties

No data available.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

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	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)

No data available

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	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)

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No data available

<b>Toxicity to algae (acute)</b>			
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

<b>Bacteria toxicity</b>			
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		

## 12.2 Persistence and degradability

<b>Biodegradability</b>			
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	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-
Source	manufacturer		
Evaluation	not readily degradable		
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

<b>Bioconcentration factor (BCF)</b>			
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		

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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
log Pow		2,68	
Reference temperature with reference to		30	°C
Method		pH: 7.1	
Source		EU Method A.8	
	ECHA		
2	isobutane	75-28-5	200-857-2
log Pow		2,80	
Reference temperature with reference to		20	°C
Method		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

No data available.

## 12.6 Endocrine disrupting properties

No data available.

## 12.7 Other adverse effects

No data available.

## 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!  
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 Transport ADR/RID/ADN

Class	2
Classification code	5F
UN number	UN1950
Proper shipping name	AEROSOLS
Tunnel restriction code	D
Label	2.1

### 14.2 Transport IMDG

Class	2
UN number	UN1950
Proper shipping name	AEROSOLS

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EmS F-D, S-U  
Label 2.1  
Comments The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II at least.

## 14.3 Transport ICAO-TI / IATA

Class 2.1  
UN number UN1950  
Proper shipping name Aerosols, flammable  
Label 2.1  
Comments The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II (IATA-Regulation 5.2 PI203).

## 14.4 Other information

No data available.

## 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

## 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

##### **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

##### **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: P3a

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

VOC content 19,47 %

##### **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)**



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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.
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.

### 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.

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