

# EU safety data sheet

**Trade name:** 2K-MONTAGE-SCHAUM

**Product no.:** BS-2

**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**

**2K-MONTAGE-SCHAUM**

### 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

Carc. 2; H351

Eye Irrit. 2; H319

Resp. Sens. 1; H334

Skin Irrit. 2; H315

Skin Sens. 1; H317

STOT RE 2; H373

STOT SE 3; H335

**Classification information**

Classification and labelling are based on toxicological studies performed on the product (mixture).

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

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

diphenylmethanediisocyanate, isomeres and homologues

## **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.  
H373 May cause damage to organs through prolonged or repeated exposure

## **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.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/eye protection/face 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 hazardous or special waste collection point.

## **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

One or more components of this product are classified as 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	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	diphenylmethanediisocyanate, isomeres and homologues		

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	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%
2	<b>Reaction products of phosphoryl trichloride and methyloxiran</b>			
	1244733-77-4 807-935-0 - 01-2119486772-26	Acute Tox. 4; H302 Aquatic Chronic 3; H412	>= 10,00 - < 25,00	wt%
3	<b>ethanediol</b>			
	107-21-1 203-473-3 603-027-00-1 01-2119456816-28	Acute Tox. 4; H302 STOT RE 2; H373o	>= 5,00 - < 10,00	wt%
4	<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%
5	<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%
6	<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%

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)
1	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%	-	-
4	C, U	-	-	-
5	U	-	-	-
6	U	-	-	-

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
3	H373 oral; kidneys; -

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
2	632 mg/kg bodyweight		
3	500 mg/kg bodyweight		

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

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

**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**

Separate eyelids, wash the eyes thoroughly with water (15 min.). 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; Bromine compounds; chlorine compounds; Hydrogen cyanide (HCN); Nitrogen oxides (NOx); Exposure to heat may cause bursting of the aerosol packagings.

### 5.3 Advice for firefighters

Cool endangered containers with water spray jet. Use self-contained breathing apparatus. 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

Allow to set, pick up mechanically. Material sets hard automatically in air. 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.

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## General protective and hygiene measures

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/m³
	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/m³ 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	ethanediol	107-21-1	203-473-3
	TRGS 900		
	Ethandiol		
	WEL long-term (8-hr TWA reference period)	26	mg/m³ 10 ml/m³
	Ceiling Limit	2(I)	
	Skin resorption / sensibilisation	H	
	Notes	Y	
	2000/39/EC		
	Ethylene glycol		
	WEL short-term (15 min reference period)	104	mg/m³ 40 ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m³ 20 ppm
	Skin resorption / sensibilisation	Skin	
3	isobutane	75-28-5	200-857-2

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	TRGS 900				
	Isobutan				
	WEL long-term (8-hr TWA reference period)	2400	mg/m³	1000	ml/m³
	Ceiling Limit	4(II)			
4	dimethyl ether	115-10-6		204-065-8	
	TRGS 900				
	Dimethylether				
	WEL long-term (8-hr TWA reference period)	1900	mg/m³	1000	ml/m³
	Ceiling Limit	8(II)			
	2000/39/EC				
	Dimethylether				
	WEL long-term (8-hr TWA reference period)	1920	mg/m³	1000	ppm
5	propane	74-98-6		200-827-9	
	TRGS 900				
	Propan				
	WEL long-term (8-hr TWA reference period)	1800	mg/m³	1000	ml/m³
	Ceiling Limit	4(II)			

## DNEL, DMEL and PNEC values

### DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Reaction products of phosphoryl trichloride and methyloxiran			<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 (acute)	systemic	22,6	mg/m <sup>3</sup>
2	ethanediol			<b>107-21-1</b> <b>203-473-3</b>	
	dermal	Long term (chronic)	systemic	106	mg/kg/day
	inhalative	Long term (chronic)	local	35	mg/m <sup>3</sup>
3	dimethyl ether			<b>115-10-6</b> <b>204-065-8</b>	
	inhalative	Long term (chronic)	systemic	1894	mg/m <sup>3</sup>

### DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Reaction products of phosphoryl trichloride and methyloxiran			<b>1244733-77-4</b> <b>807-935-0</b>	
	oral	Long term (chronic)	systemic	0,52	mg/kg/day
	oral	Short term (acute)	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 (acute)	systemic	5,6	mg/m <sup>3</sup>
2	ethanediol			<b>107-21-1</b> <b>203-473-3</b>	
	dermal	Long term (chronic)	systemic	53	mg/kg/day
	inhalative	Long term (chronic)	local	7	mg/m <sup>3</sup>
3	dimethyl ether			<b>115-10-6</b> <b>204-065-8</b>	
	inhalative	Long term (chronic)	systemic	471	mg/m <sup>3</sup>

### PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	Reaction products of phosphoryl trichloride and methyloxiran		<b>1244733-77-4</b> <b>807-935-0</b>	
	water	fresh water	0,32	mg/L
	water	Aqua intermittent	0,51	mg/L

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	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>115-10-6 204-065-8</b>	
	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

## 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, combination 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

<b>State of aggregation</b>
liquid
<b>Form</b>
Aerosol
<b>Colour</b>

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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			
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	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	
2	ethanediol	107-21-1	203-473-3
log Pow		-1,36	
Reference temperature		25	°C
Method		QSAR	
Source		ECHA	
3	isobutane	75-28-5	200-857-2
log Pow		2,80	
Reference temperature		20	°C
with reference to		pH 7	

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Source	ECHA
<b>4</b>	<b>propane</b>
	<b>74-98-6</b>
	<b>200-827-9</b>
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

Bromine compounds; Chlorine compounds; Hydrogen cyanide (HCN); Nitrous oxides (NOx)

## 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	
2K-MONTAGE-SCHAUM	
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		
<b>2</b>	<b>ethanediol</b>	<b>107-21-1</b>	<b>203-473-3</b>
ATE	300	- 2000	mg/kg bodyweight
Evaluation/classification	The classification is according to the current version of the harmonized classification found in Annex VI of Regulation EC 1272/2008.		

## Acute dermal toxicity

No	Substance name	CAS no.	EC no.
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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

**2K-MONTAGE-SCHAUM**

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).
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## 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	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.		
3	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.		
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.		
2	ethanediol	107-21-1	203-473-3
Duration of exposure		20	h
Species	rabbit		
Method	BASF-Test		
Source	ECHA		

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Evaluation		non-irritant	
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.	
2	ethanediol	107-21-1	203-473-3
Duration of exposure		24	h
Species		rabbit	
Method		BASF-Test	
Source		ECHA	
Evaluation		non-irritant	
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.	
2	ethanediol	107-21-1	203-473-3
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
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	ethanediol	107-21-1	203-473-3
Type of examination		Bacterial Reverse Mutation Test	
Species		Salmonella typhimurium: TA 1535, TA 1537, TA 98, TA 100; Escherichia coli WP2 uvrA	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	isobutane	75-28-5	200-857-2

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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.		
4	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.		
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	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.		
3	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.		
4	propane	74-98-6	200-827-9

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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	ethanediol	107-21-1	203-473-3
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	dimethyl ether	115-10-6	204-065-8
Route of exposure		inhalational	
NOAEC		47106 mg/m <sup>3</sup>	
Type of examination		Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
Species		rat	
Method		OECD 453	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure	
Product Name	
2K-MONTAGE-SCHAUM	
Route of exposure	inhalation
Source	manufacturer
Evaluation/classification	Based on available data, the classification criteria are met.

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	ethanediol	107-21-1	203-473-3
Route of exposure		oral	
NOAEL		150 mg/kg bw/d	
Duration of exposure		12 months	
Species		rat	
Target organ		kidneys	
Method		OECD 452	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	
Route of exposure		dermal	
Species		dog	
Target organ		skin	
Method		OECD 410	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

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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	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.		
5	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

## 11.2 Information on other hazards

### 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	ethanediol	107-21-1	203-473-3
LC50		> 72860	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA/600/4-90/027		
Source	ECHA		
3	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.		
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

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EC50	131	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Source	ECHA	
<b>2</b>	<b>ethanediol</b>	<b>107-21-1 203-473-3</b>
EC50	>	100 mg/l
Duration of exposure	48	h
Species	Daphnia magna	
Method	OECD 202	
Source	ECHA	
<b>3</b>	<b>dimethyl ether</b>	<b>115-10-6 204-065-8</b>
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.	

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ethanediol</b>	<b>107-21-1</b>	<b>203-473-3</b>
NOEC		8590	mg/l
Duration of exposure		7	day(s)
Species	Ceriodaphnia dubia		
Method	EPA 600/4-89/001		
Source	ECHA		

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

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Reaction products of phosphoryl trichloride and methyloxiran</b>	<b>1244733-77-4</b>	<b>807-935-0</b>
EC50		784	mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	ISO 8192		
Source	ECHA		
<b>2</b>	<b>dimethyl ether</b>	<b>115-10-6</b>	<b>204-065-8</b>
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.
<b>1</b>	<b>Reaction products of phosphoryl trichloride and methyloxiran</b>	<b>1244733-77-4</b>	<b>807-935-0</b>
Type	aerobic biodegradation		
Value		14	%
Duration		28	d
Method	EU C-4.D		

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Source Evaluation	ECHA not readily biodegradable		
<b>2</b>	<b>ethanediol</b>	<b>107-21-1</b>	<b>203-473-3</b>
Type	DOC decrease		
Value	90	- 100	%
Duration		10	day(s)
Method	OECD 301 A		
Source	ECHA		
Evaluation	readily biodegradable		
<b>3</b>	<b>isobutane</b>	<b>75-28-5</b>	<b>200-857-2</b>
Type	aerobic biodegradation		
Value		50	%
Duration		3,1	d
Method	QSAR		
Source	ECHA		
Evaluation	readily biodegradable		
<b>4</b>	<b>dimethyl ether</b>	<b>115-10-6</b>	<b>204-065-8</b>
Type	aerobic biodegradation		
Value		5	%
Duration		28	d
Method	OECD 301 D		
Source	ECHA		
Evaluation	not readily biodegradable		
<b>5</b>	<b>propane</b>	<b>74-98-6</b>	<b>200-827-9</b>
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
log Pow		2,68	
Reference temperature		30	°C
with reference to	pH: 7.1		
Method	EU Method A.8		
Source	ECHA		
2	ethanediol	107-21-1	203-473-3
log Pow		-1,36	
Reference temperature		25	°C
Method	QSAR		
Source	ECHA		
3	isobutane	75-28-5	200-857-2
log Pow		2,80	
Reference temperature		20	°C
with reference to	pH 7		
Source	ECHA		
4	propane	74-98-6	200-827-9
log Pow	appr.	1,8	

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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	
2K-MONTAGE-SCHAUM	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	One or more components of this product are classified as 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

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

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

## 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

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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

## 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**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

##### **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: P3a

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

VOC content 18,7 %

##### **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.

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## 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)**

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.
H373o	May cause damage to organs through prolonged or repeated exposure if swallowed.
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.
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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