

EU safety data sheet

Trade name: 2K-MONTAGE-SCHAUM

Product no.: BS-2

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

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

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

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

Hazardous component(s) to be indicated on label:

diphenylmethanediisocyanate, isomeres and homologues

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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

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.
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

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	diphenylmethanediisocyanate, isomeres and homologues			
	9016-87-9	Carc. 2; H351	>= 10,00 - < 25,00	wt%
	-	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		
2	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%
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	ethanediol			
	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%
5	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%
6	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%

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	-	-	-
5	C, 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
1	H373 inhalational; hearing; -
4	H373 oral; kidneys; -

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

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

Call a doctor immediately.

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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: Bromine compounds; chromium compounds; Hydrogen chloride (HCl); Nitrogen oxides (NOx); Carbon monoxide and carbon dioxide; 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.

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

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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		
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	ethanediol	107-21-1	203-473-3	
	TRGS 900			
	Ethandiol			
	WEL long-term (8-hr TWA reference period)	26	mg/m ³	10 ml/m ³
	Ceiling Limit	2(I)		
	Skin resorption / sensibilisation	H		
	Notes	Y		
	2000/39/EC			
	Ethylene glycol			
	WEL short-term (15 min reference period)	104	mg/m ³	40 ppm
	WEL long-term (8-hr TWA reference period)	52	mg/m ³	20 ppm
	Skin resorption / sensibilisation	Skin		
4	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)		
5	propane	74-98-6	200-827-9	
	TRGS 900			
	Propan			
	WEL long-term (8-hr TWA reference period)	1800	mg/m ³	1000 ml/m ³
	Ceiling Limit	4(II)		

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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			1244733-77-4 807-935-0	
	dermal	Long term (chronic)	systemic	2,91	mg/kg/day
	inhalative	Long term (chronic)	systemic	8,2	mg/m ³
	inhalative	Short term (acut)	systemic	22,6	mg/m ³
2	dimethyl ether			115-10-6 204-065-8	
	inhalative	Long term (chronic)	systemic	1894	mg/m ³
3	ethanediol			107-21-1 203-473-3	
	dermal	Long term (chronic)	systemic	106	mg/kg/day
	inhalative	Long term (chronic)	local	35	mg/m ³

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/m ³
	inhalative	Short term (acut)	systemic	5,6	mg/m ³
2	dimethyl ether			115-10-6 204-065-8	
	inhalative	Long term (chronic)	systemic	471	mg/m ³
3	ethanediol			107-21-1 203-473-3	
	dermal	Long term (chronic)	systemic	53	mg/kg/day
	inhalative	Long term (chronic)	local	7	mg/m ³

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
	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

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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

0,7

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

State of aggregation

liquid

Form

Aerosol

Colour

light green

Odour

characteristic

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

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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	1,014	g/cm ³
Reference temperature	25	°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
	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	
	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

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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)	
No	Product Name
1	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	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-
LD50	>	10000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	manufacturer		
2	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		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-
LD50	>	9400	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	manufacturer		
2	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)	
No	Product Name
1	2K-MONTAGE-SCHAUM

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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	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		
2	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		
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.		
2	ethanediol	107-21-1	203-473-3
Duration of exposure		20	h
Species	rabbit		
Source	ECHA		
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		

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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
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	
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
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

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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	ethanediol	107-21-1	203-473-3
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	ethanediol	107-21-1	203-473-3
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure			
No	Product Name	CAS no.	EC no.
1	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	

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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.	
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

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 ethanediol		107-21-1	203-473-3
LC50	>	72860	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
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		

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Source	ECHA		
2	ethanediol	107-21-1	203-473-3
EC50	>	100	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

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		

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-
Source	manufacturer		
Evaluation	not readily degradable		
2	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		
3	ethanediol	107-21-1	203-473-3
Type	DOC decrease		
Value	90	- 100	%
Duration		10	day(s)
Method	OECD 301 A		
Source	ECHA		
Evaluation	readily biodegradable		
4	isobutane	75-28-5	200-857-2
Type	aerobic biodegradation		
Value		50	%
Duration		3,1	d
Method	QSAR		
Source	ECHA		

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Evaluation	readily biodegradable		
5	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
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
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	
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

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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.

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

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
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

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

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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	18,26 %

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)

H220	Extremely flammable gas.
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.

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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Prod-ID 20267