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> Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

**1.1 Product identifier** 

2K FOAM OZR 400 ml Art.: 9086823

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

Filling, proofing and insulating joints and cavities
Sector of use [SU]:
SU 0 - Other
SU 1 - Agriculture, forestry, fishery
SU19 - Building and construction work
SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Chemical product category [PC]:
PC 1 - Adhesives, sealants
Process category [PROC]:
PROC19 - Manual activities involving hand contact
Uses advised against:
No information available at present.

### 1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG Salzstr. 51 74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

## **1.4 Emergency telephone number** Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49(0)700/24112(BRC)

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture



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Classification acco	Classification according to Regulation (EC) 1272/2008 (CLP)					
Hazard class	Hazard category	Hazard statement				
Eye Irrit.	2	H319-Causes serious eye irritation.				
STOT SE	3	H335-May cause respiratory irritation.				
Skin Irrit.	2	H315-Causes skin irritation.				
Resp. Sens.	1	H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
Skin Sens.	1	H317-May cause an allergic skin reaction.				
STOT RE	2	H373-May cause damage to organs through prolonged or repeated exposure.				
Carc.	2	H351-Suspected of causing cancer.				
Aerosol	1	H222-Extremely flammable aerosol.				
Aerosol	1	H229-Pressurised container: May burst if heated.				

### 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



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H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H334-
May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-May cause an allergic skin
reaction. H373-May cause damage to organs through prolonged or repeated exposure. H351-Suspected of
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causing cancer. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated. P201-Obtain special instructions before use. P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing and eye protection / face protection. P284-Wear respiratory protection. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313-IF

P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313-IF exposed or concerned: Get medical advice / attention.

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

EUH204-Contains isocyanates. May produce an allergic reaction.

Without adequate ventilation, formation of explosive mixtures may be possible. Formaldehyde, oligomeric reaction products with aniline and phosgene Ethanediol

# 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

GB



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# **SECTION 3: Composition/information on ingredients**

3.1 Substance

n.a.	
3.2 Mixture	
Dimethyl ether	Substance for which an EU exposure limit
	value applies.
Registration number (REACH)	01-2119472128-37-XXXX
Index	603-019-00-8
EINECS, ELINCS, NLP	204-065-8
CAS	115-10-6
content %	1-<20
Classification according to Regulation (EC) 1272/2008	Flam. Gas 1A, H220
(CLP)	

Formaldehyde, oligomeric reaction products with	Substance with specific conc. limit(s) acc. to
aniline and phosgene	<b>REACh-registration</b>
<b>Registration number (REACH)</b>	01-2119457024-46-XXXX
Index	
EINECS, ELINCS, NLP	500-079-6 (NLP)
CAS	32055-14-4
content %	10-<15
Classification according to Regulation (EC) 1272/2008	Skin Irrit. 2, H315
(CLP)	Eye Irrit. 2, H319
	Skin Sens. 1, H317
	Acute Tox. 4, H332
	Resp. Sens. 1, H334
	STOT SE 3, H335
	Carc. 2, H351
	STOT RE 2, H373

Ethanediol	Substance for which an EU exposure limit
	value applies.
Registration number (REACH)	01-2119456816-28-XXXX
Index	603-027-00-1
EINECS, ELINCS, NLP	203-473-3
CAS	107-21-1
content %	1-<10
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP)	STOT RE 2, H373

Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2- chloropropyl) ester	
<b>Registration number (REACH)</b>	01-2119486772-26-XXXX
Index	



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EINECS, ELINCS, NLP	911-815-4 (REACH-IT List-No.)
CAS	(13674-84-5)
content %	1-<5
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP)	

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

### Ingestion

Call doctor immediately - have Data Sheet available.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. Headaches dizziness drowsiness Allergic reaction In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms. **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media
Suitable extinguishing media
Extinction powder
CO2
Foam
Water jet spray
Unsuitable extinguishing media
High volume water jet



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# 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Hydrocyanic acid (hydrogen cyanide) Hydrogen chloride Danger of bursting (explosion) when heated **5.3 Advice for firefighters** In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures
Ensure sufficient supply of air.
Remove possible causes of ignition - do not smoke.
Avoid inhalation, and contact with eyes or skin.
6.2 Environmental precautions
Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.
6.3 Methods and material for containment and cleaning up
Pick up mechanically and dispose of according to Section 13.
6.4 Reference to other sections
For personal protective equipment see Section 8 and for disposal instructions see Section 13.

### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

# 7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid inhalation, and contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

After mixing it is essential to use within 4 minutes.

If foam has been mixed but not withdrawn, the can may heat up to over 50°C.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities



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Keep out of access to unauthorised individuals.
Store product closed and only in original packing.
Not to be stored in gangways or stair wells.
Observe special regulations for aerosols!
Observe special storage conditions.
Do not store with oxidizing agents.
Under all circumstances prevent penetration into the soil.
Keep protected from direct sunlight and temperatures over 50°C.
Store in a well ventilated place.
Store cool. **7.3 Specific end use(s)**No information available at present.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

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<sup>(68)</sup> Chemical Name	Dimethyl eth	er			Content %:1- <20
WEL-TWA: 400 ppm (766	5 mg/m3)	WEL-STEL: 500 ppm (9	958 mg/m3)		
(WEL), 1000 ppm (1920 mg	/m3) (EU)	(WEL)			
Monitoring procedures:	-	Compur - KITA-123 S (549			
BMGV:			Other information:		
<sup>(B)</sup> Chemical Name	phosgene	le, oligomeric reaction produc			Content %:10-<15
WEL-TWA: 0,02 mg/m3 (	Isocyanates,		3 (Isocyanates,		
all (as -NCO))		all (as -NCO))			
Monitoring procedures:	Monitoring procedures:MDHS 25/3 (Organic isocyanates in air – Laboratory n sampling either onto 2-(1-methoxyphenylpiperazine co				
	-	fibre filters followed by solve analysis using high performa ISO 16702 (Workplace air qu	nce liquid chromato	ograpĥ	y) - 1999
	_	isocyanate groups in air usin liquid chromatography) - 200	g 2-(1-methoxypher		
BMGV: 1 µmol isocyanate (At the end of the period of e		ne/mol creatinine in urine	Other information: all (as -NCO))	Sen	(Isocyanates,
<sup>(6)</sup> Chemical Name	Ethanediol				Content %:1- <10
WEL-TWA: 10 mg/m3 (pa		WEL-STEL: 104 mg/m3			
mg/m3 (vapour) (WEL), 20 p mg/m3) (EU)	ppm (52	(WEL), 40 ppm (104 mg/r	m3) (EU)		
Monitoring procedures:	-	Compur - KITA-232 SA (50	2 342)		
	-	Compur - KITA-232 SB (55			
	-	Draeger - Ethylene Glycol 10	0 (5) (81 01 351)		
	-	NIOSH 5523 (Glycols) - 199			
		OSHA PV2024 (Ethylene gl		roject	
	-	BC/CEN/ENTR/000/2002-1			
	-	Draeger - Alcohol 100/a (CH	/		
BMGV:			Other information: vapour)	Sk (j	particulate,



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Chemical Name	Isobutane			Content %:
WEL-TWA: 1000 ppm (E	X) (ACGIH)	WEL-STEL:		
Monitoring procedures:	-	Compur - KITA-113 SB(C)	) (549 368)	
BMGV:			Other information:	
Chemical Name	Propane			Content %:
WEL-TWA: 1000 ppm (A	CGIH)	WEL-STEL:		
Monitoring procedures:	-	Compur - KITA-125 SA (5	49 954)	
			Other information:	

Dimethyl ether						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	0,155	mg/l	
	freshwater				-	
	Environment -		PNEC	0,681	mg/kg	
	sediment, freshwater					
	Environment - soil		PNEC	0,045	mg/kg	
	Environment -		PNEC	160	mg/l	
	sewage treatment					
	plant					
	Environment - marine		PNEC	0,016	mg/l	
	Environment - water,		PNEC	1,549	mg/l	
	sporadic					
	(intermittent) release					
	Environment -		PNEC	0,069	mg/kg	
	sediment, marine					
Consumer	Human - inhalation	Long term,	DNEL	471	mg/m3	
		systemic effects				
Workers / employees	Human - inhalation	Long term,	DNEL	1894	mg/m3	
		systemic effects				

Formaldehyde, oligomeric reaction products with aniline and phosgene						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment - marine		PNEC	0,1	mg/l	
	Environment - soil		PNEC	1	mg/kg	
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant					
	Environment -		PNEC	1	mg/l	
	freshwater					
Industrial	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
		systemic effects				
Industrial	Human - dermal	Short term, local	DNEL	28,7	mg/cm2	
		effects				
Industrial	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
		systemic effects				



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Industrial	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d	
Industrial	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	
Industrial	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	

Ethanediol						
Area of application	Exposure route / Environmental	Effect on health	Descript or	Value	Unit	Note
	compartment		DUTE	10	1	
	Environment -		PNEC	10	mg/l	
	freshwater					
	Environment - marine		PNEC	1	mg/l	
	Environment -		PNEC	10	mg/l	
	sporadic					
	(intermittent) release					
	Environment -		PNEC	199,5	mg/l	
	sewage treatment				-	
	plant					
	Environment -		PNEC	20,9	mg/kg	
	sediment, freshwater					
	Environment - soil		PNEC	1,53	mg/kg	
Industrial	Human - inhalation	Long term, local effects	DNEL	35	mg/m3	
Industrial	Human - dermal	Long term,	DNEL	106	mg/kg	
		systemic effects			bw/d	
Consumer	Human - inhalation	Long term, local effects	DNEL	7	mg/m3	
Consumer	Human - dermal	Long term,	DNEL	53	mg/m3	
		systemic effects				

	2-chloropropyl) phosph					
methylethyl bis(2-chlo	-chloro-1-methylethyl)	2-chioropropyl ester	and Phosp	noric aci	a, 2-chioro	)-1-
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
TT	Environmental		or			
	compartment					
	Environment - oral		PNEC	11,6	mg/kg	
	(animal feed)				feed	
	Environment -		PNEC	0,32	mg/l	
	freshwater					
	Environment - soil		PNEC	0,34	mg/kg	
					dw	
	Environment -		PNEC	11,5	mg/kg	
	sediment				dw	
	Environment -		PNEC	19,1	mg/l	
	sewage treatment					
	plant					



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	Environment - marine		PNEC	0,032	mg/l
	Environment -		PNEC	1,15	mg/kg
	sediment, marine				dw
	Environment - water, sporadic (intermittent) release		PNEC	0,51	mg/l
Industrial	Human - dermal	Long term, systemic effects	DNEL	2,08	mg/kg bw/day
Industrial	Human - inhalation	Short term, systemic effects	DNEL	22,4	mg/m3
Industrial	Human - inhalation	Long term, systemic effects	DNEL	5,28	mg/m3
Industrial	Human - dermal	Short term, systemic effects	DNEL	8	mg/kg bw/day
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,46	mg/m3
Consumer	Human - inhalation	Short term, systemic effects	DNEL	11,2	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,04	mg/kg bw/d
Consumer	Human - dermal	Short term, systemic effects	DNEL	4	mg/kg bw/d
Consumer	Human - oral	Long term, systemic effects	DNEL	0,52	mg/kg bw/d

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

### 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.



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Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Protective gloves in butyl rubber (EN 374). Permeation time (penetration time) in minutes: > 120 Protective hand cream recommended. The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: If OES or MEL is exceeded. Filter A P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

# 8.2.3 Environmental exposure controls

No information available at present.



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# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state:	Aerosol. Active substance: liquid.
Colour:	Not determined
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	n.a.
Melting point/freezing point:	n.a.
Initial boiling point and boiling range:	n.a.
Flash point:	n.a.
Evaporation rate:	n.a.
Flammability (solid, gas):	Yes
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air $=$ 1):	n.a.
Density:	Not determined
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	reacts with water
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	n.a.
Decomposition temperature:	Not determined
Viscosity:	n.a.
Explosive properties:	Not determined
Oxidising properties:	No
9.2 Other information	
Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

# **SECTION 10: Stability and reactivity**

10.1 Reactivity
The product has not been tested.
10.2 Chemical stability
Stable with proper storage and handling.
10.3 Possibility of hazardous reactions
No dangerous reactions are known.
10.4 Conditions to avoid
See also section 7.
Heating, open flame, ignition sources
Pressure increase will result in danger of bursting.
10.5 Incompatible materials
See also section 7.
Oxidizing agents
10.6 Hazardous decomposition products



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See also section 5.2 No decomposition when used as directed.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

2K FOAM OZR 400 ml						
Art.: 9086823						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Dimethyl ether						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by	LC50	164	mg/l/4h	Rat		
inhalation:						
Skin corrosion/irritation:						Not irritant
Serious eye						Not irritant
damage/irritation:						
Respiratory or skin						No (skin
sensitisation:						contact)
Germ cell mutagenicity:					OECD 471	Negative
					(Bacterial Reverse	
					Mutation Test)	



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Germ cell mutagenicity:					OECD 473 (In	Negative
					Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 477	Negative
					(Genetic	
					Toxicology - Sex-	
					Linked Recessive	
					Lethal Test in	
					Drosophilia	
					melanogaster)	
Carcinogenicity:	NOAEC	47000	mg/m3	Rat	OECD 453	Negative
			0		(Combined	8
					Chronic	
					Toxicity/Carcinoge	
					nicity Studies)	
Reproductive toxicity:	NOAEL	5000	ppm	Rat	OECD 414	
		2000	PPm	Itut	(Prenatal	
					Developmental	
					Toxicity Study)	
Specific target organ	NOAEC	47106	mg/kg	Rat	OECD 452	Negative(2
toxicity - repeated	HOMEC	47100	IIIg/Kg	Rat	(Chronic Toxicity	a)
exposure (STOT-RE):					Studies)	<i>a)</i>
Aspiration hazard:					Studies)	No
Symptoms:						unconsciousn
Symptoms.						ess,
						headaches,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.,
						frostbite,
						gastrointestin
						al
						disturbances,
						respiratory
						distress,
						circulatory
						collapse

Formaldehyde, oligomeric reaction products with aniline and phosgene							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat			
route:							
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit			
dermal route:							



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Acute toxicity, by inhalation:	LC0	2,24	mg/l/1h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:						Irritant
Serious eye damage/irritation:				Rabbit		Irritant
Respiratory or skin sensitisation:						Sensitising (inhalation and skin contact)
Carcinogenicity:						Limited evidence of a carcinogenic effect.
Symptoms:						respiratory distress, coughing, mucous membrane irritation
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Irritation of the respiratory tract

Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1methylethyl bis(2-chloropropyl) ester

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	632	mg/kg	Rat		
route:						
Acute toxicity, by oral	LD50	>500-	mg/kg	Rat	Regulation (EC)	
route:		<2000			440/2008 B.1	
					(ACUTE ORAL	
					TOXICITY)	
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	
Acute toxicity, by	LC50	>7	mg/l/4h	Rat	OECD 403 (Acute	Dust, Mist
inhalation:					Inhalation	
					Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	



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Respiratory or skin				Guinea pig	OECD 429 (Skin	Not
sensitisation:					Sensitisation -	sensitizising
					Local Lymph	
					Node Assay)	
Germ cell mutagenicity:					(Ames-Test)	Negative
Germ cell mutagenicity:				Mouse	in vivo	Negative
Carcinogenicity:	LOAEL	52	mg/kg bw/d			
Carcinogenicity:						No indications of such an effect.
Reproductive toxicity:	LOAEL	99	mg/kg/ d			
Reproductive toxicity (Developmental toxicity):	NOEL	571	mg/kg bw/d	Rat		
Specific target organ toxicity - single exposure (STOT-SE):						No
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEL	>20	ppm	Rat		13w
Aspiration hazard:						Not to be expected

Isobutane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by	LC50	658	mg/l/4h	Rat		
inhalation:						
Serious eye				Rabbit		Not irritant
damage/irritation:						
Germ cell mutagenicity:					OECD 471	Negative
					(Bacterial Reverse	
					Mutation Test)	
Aspiration hazard:						No
Symptoms:						unconsciousn
						ess,
						frostbite,
						headaches,
						cramps,
						dizziness,
						nausea and
						vomiting.

Propane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt			-		
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		



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Skin corrosion/irritation:					Not irritant
Serious eye					Not irritant
damage/irritation:					
Germ cell mutagenicity:				OECD 471	Negative
				(Bacterial Reverse	
				Mutation Test)	
Reproductive toxicity	NOAEC	21,641	mg/l	OECD 422	
(Developmental				(Combined	
toxicity):				Repeated Dose	
				Tox. Study with	
				the	
				Reproduction/Dev	
				elopm. Tox.	
				Screening Test)	
Aspiration hazard:					No
Symptoms:					breathing
					difficulties,
					unconsciousr
					ess,
					frostbite,
					headaches,
					cramps,
					mucous
					membrane
					irritation,
					dizziness,
					nausea and
					vomiting.

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

2K FOAM OZR 40	)0 ml						
Art.: 9086823							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2. Persistence							n.d.a.
and degradability:							
12.3.							Not to be
Bioaccumulative							expected
potential:							
12.4. Mobility in							n.d.a.
soil:							



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12.5. Results of PBT and vPvB				n.d.a.
assessment				
12.6. Other				n.d.a.
adverse effects:				
Other information:				n.d.a.

Dimethyl ether							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC0	96h	2695	mg/l	Pimephales		
fish:					promelas		
12.1. Toxicity to	LC50	96h	3082	mg/l	Salmo		
fish:					gairdneri		
12.1. Toxicity to	LC50	96h	>4,1	mg/l	Poecilia		
fish:					reticulata		
12.1. Toxicity to	EC50	48h	>4,4	mg/l	Daphnia		
daphnia:					magna		
12.1. Toxicity to	EC50	96h	154,9	mg/l	Chlorella		
algae:					vulgaris		
12.2. Persistence		28d	5	%		OECD 301 D	Not readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - Closed	
						Bottle Test)	
12.3.	Log Pow		-0,07				Bioaccumula
Bioaccumulative							tion is
potential:							unlikely
							(LogPow <
							1). 25°C
			510 C	D * 2/			(pH 7)
12.4. Mobility in	H (Henry)		518,6	Pa*m3/			No
soil:				mol			adsorption
12.5. Results of							in soil. No PBT
PBT and vPvB							substance, No vPvB
assessment							substance
Toxicity to	EC10		>1600	mg/l	Pseudomonas		substance
bacteria:	LCIU		>1000	Ing/1	putida		
Other information:					putida		Does not
Other miormation.							contain any
							organically
							bound
							halogens
							which can
							contribute to
							the AOX
							value in
							waste
							waster.DIN
							EN 1485
		l					LIN 140J



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Water solubility:

45,60 mg/l

25°C

Formaldehyde, olig	gomeric react	ion prod	ucts with	aniline a	nd phosgene		
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	>1000	mg/l	Brachydanio	OECD 203	
fish:					rerio	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	24h	>1000	mg/l	Daphnia		Analogous
daphnia:					magna		conclusion
12.1. Toxicity to	EC50	72h	1,5	mg/l		OECD 201	
algae:						(Alga,	
						Growth	
						Inhibition	
						Test)	
12.1. Toxicity to	NOEC/NO	72h	1640	mg/l	Desmodesmus	OECD 201	Analogous
algae:	EL				subspicatus	(Alga,	conclusion
						Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	0	%		OECD 302 C	With water
and degradability:						(Inherent	at the
						Biodegradabil	interface,
						ity - Modified	transforms
						MITI Test	slowly with
						(II))	formation of
							CO2 into a
							firm,
							insoluble
							reaction
							product with
							a high
							melting
							point
							(polycarbami
							de).,
							According
							to
							experience
							available to
							date,
							polycarbami
							de is inert
							and non-
							degradable.



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12.3. Bioaccumulative potential:	Log Pow		5,22			A notable biological accumulation potential has to be expected (LogPow > 3).
12.5. Results of						No PBT
PBT and vPvB						substance, No vPvB
assessment						substance
Toxicity to	EC50	3h	>100	mg/l	activated	
bacteria:					sludge	
Toxicity to	EC50	14d	>1000	mg/kg	Eisenia	
annelids:					foetida	

Reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and Phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and Phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

methylethyl bis(2-	chloropropyl)	ester					
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	56,2	mg/l			
fish:				_			
12.1. Toxicity to	LC50	96h	51	mg/l	Pimephales		
fish:				_	promelas		
12.1. Toxicity to	LC50	96h	56,2	mg/l	Brachydanio		
fish:					rerio		
12.1. Toxicity to	LC50	96h	56,2	mg/l			
fish:							
12.1. Toxicity to	EC50	48h	131	mg/l	Daphnia		
daphnia:				_	magna		
12.1. Toxicity to	NOEC/NO		32	mg/l	Daphnia		
daphnia:	EL			_	magna		
12.1. Toxicity to	NOEC/NO	21d	32	mg/l	Daphnia	OECD 202	
daphnia:	EL			_	magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to		72h	82	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
					_	Inhibition	
						Test)	
12.1. Toxicity to	EC50	72h	82	mg/l	Pseudokirchne	OECD 221	freshwater
algae:					riella	(Lemna sp.	
					subcapitata	Growth	
						Inhibition	
						Test)	



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12.2. Persistence		28d	13	%	activated	Regulation	Not readily
and degradability:		204		/0	sludge	(EC)	biodegradabl
					-	440/2008 C.6	e
						(DEGRADAT	
						ION -	
						CHEMICAL	
						OXYGEN	
						DEMAND)	
12.2. Persistence							Not readily
and degradability:							biodegradabl
10.0	D.CT	4.0.1				0.7.07.005	e
12.3.	BCF	42d	0,8-		Cyprinus	OECD 305	
Bioaccumulative			2,8		caprio	(Bioconcentra	
potential:						tion - Flow-	
						Through Fish	
12.3.	BCF		0,8-			Test)	
Bioaccumulative	DCI		<14				
potential:							
12.3.	Log Pow		-2,68				
Bioaccumulative	Logiow		2,00				
potential:							
12.3.	BCF	42d	0,8-		Cyprinus		A notable
Bioaccumulative			4,6		caprio		biological
potential:					•		accumulation
							potential is
							not to be
							expected
							(LogPow 1-
							3).
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
	EGEO	- 21	70.4	/1			substance
Toxicity to	EC50	3h	784	mg/l	activated	OECD 209	
bacteria:					sludge	(Activated	
						Sludge,	
						Respiration Inhibition	
						Test (Carbon	
						and	
						Ammonium	
						Oxidation))	
L	1			1		Oxidation))	

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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12.3. Bioaccumulative potential:						A notable biological accumulation potential is not to be expected (LogPow 1- 3).
12.1. Toxicity to	LC50	96h	27,98	mg/l		
fish:	EGEO	0.01	7.71	/1		
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l		
12.2. Persistence						Readily
and degradability:						biodegradabl
						e
12.5. Results of						No PBT
PBT and vPvB						substance,
assessment						No vPvB
						substance

Propane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3.	Log Pow		2,28				A notable
Bioaccumulative							biological
potential:							accumulation
							potential is
							not to be
							expected
							(LogPow 1-
							3).
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

# **SECTION 13: Disposal considerations**

# **13.1** Waste treatment methods

# For the substance / mixture / residual amounts

EC disposal code no .:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances 08 05 01 waste isocyanates

16 05 04 gases in pressure containers (including halons) containing hazardous substances Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.



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Take emptied aerosol cans to valuable material collection. **For contaminated packing material** Pay attention to local and national official regulations. Do not perforate, cut up or weld uncleaned container. 15 01 10 packaging containing residues of or contaminated by hazardous substances

#### **SECTION 14: Transport information**

General statements	
14.1. UN number:	1950
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
UN 1950 AEROSOLS	
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Classification code:	5F
LQ:	1 L
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	D
Transport by sea (IMDG-code)	
14.2. UN proper shipping name:	
AEROSOLS	
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
EmS:	F-D, S-U
Marine Pollutant:	n.a
14.5. Environmental hazards:	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	
Aerosols, flammable	
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
Persons employed in transporting dangerous goods mu	
All persons involved in transporting must observe safe	ety regulations.
Precautions must be taken to prevent damage.	
14.7. Transport in bulk according to Annex II of M	
Freighted as packaged goods rather than in bulk, there	**
Minimum amount regulations have not been taken into	o account.
Danger code and packing code on request.	

Comply with special provisions.

# **SECTION 15: Regulatory information**

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

Observe restrictions:



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Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Regulation (EC) No 1907/2006, Annex XVII

Formaldehyde, oligomeric reaction products with aniline and phosgene Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

** 1 1			0 110 1
Hazard categories	Notes to Annex I	Qualifying quantity	Qualifying quantity
		(tonnes) of dangerous	(tonnes) of dangerous
		substances as referred to	substances as referred to
		in Article $3(10)$ for the	in Article 3(10) for the
		application of - Lower-	application of - Upper-
		tier requirements	tier requirements
P3a	11.1	150 (netto)	500 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Entry Nr	Dangerous	Notes to Annex I	Qualifying quantity	Qualifying quantity
	substances		(tonnes) for the	(tonnes) for the
			application of -	application of -
			Lower-tier	Upper-tier
			requirements	requirements
18	Liquefied	19	50	200
	flammable gases,			
	Category 1 or 2			
	(including LPG)			
	and natural gas			

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): **REGULATION (EC) No 648/2004** n.a. < 19 %

3

# 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

# **SECTION 16: Other information**

Revised sections:

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):



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Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Resp. Sens. 1, H334	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
STOT RE 2, H373	Classification according to calculation procedure.
Carc. 2, H351	Classification according to calculation procedure.
Aerosol 1, H222	Classification based on test data.
Aerosol 1, H229	Classification based on test data.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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

H220 Extremely flammable gas.

Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Skin Irrit. — Skin irritation Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization STOT RE — Specific target organ toxicity - repeated exposure Carc. — Carcinogenicity Aerosol — Aerosols Flam. Gas — Flammable gases - Flammable gas Acute Tox. — Acute toxicity - inhalation Acute Tox. — Acute toxicity - oral

### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)



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BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BSEF The International Bromine Council bw body weight CAS Chemical Abstracts Service CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level dw dry weight e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EC European Community ECHA European Chemicals Agency EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances **ELINCS** European List of Notified Chemical Substances EN European Norms United States Environmental Protection Agency (United States of America) EPA etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general gen. GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. International Uniform Chemical Information Database IUCLID LO Limited Ouantities International Convention for the Prevention of Marine Pollution from Ships MARPOL not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available OECD Organisation for Economic Co-operation and Development org. organic PBT persistent, bioaccumulative and toxic Polyethylene PE PNEC Predicted No Effect Concentration parts per million ppm PVC Polyvinylchloride REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) **REACH-IT List-No.** 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No.

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RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.