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

Revision date / version: 07.03.2017 / 0004

Replacing version dated / version: 03.07.2015 / 0003

Valid from: 07.03.2017 PDF print date: 24.09.2019 4W Vario Foam plus 500 ml

Art.: 9095271

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

4W Vario Foam plus 500 ml

Art.: 9095271

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

Sealant

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, Germany Phone:+49 7940 141 141, Fax:+49 7940 141 9141 info@bti.de, 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 / 24 112 112 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazara ciass	Hazara category	Hazard statement
Acute Tox.	4	H332-Harmful if inhaled.
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.





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2.2 Label elements

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



H332-Harmful if inhaled. 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 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 and eye protection / face protection. P284-Wear respiratory protection.

P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312-Call a POISON CENTRE / doctor if you feel unwell. P362+P364-Take off contaminated clothing and wash it before reuse

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. Diphenylmethanediisocyanate, isomeres and homologues

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 %).

SECTION 3: Composition/information on ingredients

PU-foam

3.1 Substance

n.a.

3.2 Mixture

Diphenylmethanediisocyanate, isomeres and homologues	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	





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CAS	9016-87-9
content %	25-50
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP)	Eye Irrit. 2, H319
	STOT SE 3, H335
	Skin Irrit. 2, H315
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT RE 2, H373

Glycerine propoxylate	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	
CAS	25791-96-2
content %	10-<25
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP)	

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 %	1-10
Classification according to Regulation (EC) 1272/2008	Flam. Gas 1, H220
(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.





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Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

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.

The following may occur:

In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.

Watering eyes Coughing

Irritation of the respiratory tract

Irritant to mucosa of the nose and throat

Respiratory distress

Oedema of the lungs

Dizziness

Headaches

Drying of the skin.

Dermatitis (skin inflammation)

Discoloration of the skin

Other dangerous properties cannot be ruled out.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2

Foam

Extinction powder

Water jet spray

Unsuitable extinguishing media

None

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Toxic vapours

Corrosive vapours

Oxides of carbon

Oxides of nitrogen

Oxides of phosphorus

Hydrocyanic acid (hydrogen cyanide)

Hydrogen chloride

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire





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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

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

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

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Allow product to harden.

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.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Avoid contact with eyes or skin.

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

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

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

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Observe special regulations for aerosols!

Do not store with oxidizing agents.

Do not store with alkalis.

Do not store with acids.

Observe regulations for keeping separated.





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Observe special storage conditions.

Keep protected from direct sunlight and temperatures over 50°C.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

® Charles I Name	Chemical Name Diphenylmethanediisocyanate, isomeres and homologues						
Chemical Name	Dipnenyimeth	anediisocyanate, isomeres	and nomologues		%:25-50		
WEL-TWA: 0,02 mg/m3 (Isocyanates,	WEL-STEL: 0,07 mg/r	n3 (Isocyanates,				
all (as -NCO))	-	all (as -NCO))					
Monitoring procedures:	-	·					
BMGV: 1 µmol isocyanate	-derived diamin	ne/mol creatinine in urine	Other information:	Sen	(Isocyanates,		
(At the end of the period of e	exposure)		all (as -NCO))				
(B) ~	5				Content %:1-		
Chemical Name	Dimethyl ethe	r			10		
WEL-TWA: 400 ppm (766	5 mg/m3)	WEL-STEL: 500 ppm	(958 mg/m3)				
(WEL), 1000 ppm (1920 mg	/m3) (EU)	(WEL)					
Monitoring procedures:	- (Compur - KITA-123 S (549	9 129)				
BMGV:			Other information:				
© Chemical Name	Isobutane				Content %:		
WEL-TWA: 1000 ppm (EX	X) (ACGIH)	WEL-STEL:					
Monitoring procedures:	- (Compur - KITA-113 SB(C)	(549 368)				
BMGV:			Other information:				
©B Chemical Name	Propane				Content %:		
WEL-TWA: 1000 ppm (A	CGIH)	WEL-STEL:					
Monitoring procedures:	- (Compur - KITA-125 SA (5	49 954)				
BMGV:		·	Other information:		_		

Diphenylmethanediisocyanate, isomeres and homologues							
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note	
	Environmental		or				
	compartment						
	Environment -		PNEC	1	mg/l		
	freshwater						
	Environment - marine		PNEC	0,1	mg/l		
	Environment - water,		PNEC	10	mg/l		
	sporadic						
	(intermittent) release						
	Environment -		PNEC	1	mg/l		
	sewage treatment						
	plant						
	Environment - soil		PNEC	1	mg/kg		
Consumer	Human - oral	Short term, local	DNEL	20	mg/kg		
		effects			bw/d		





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Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m3
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m3
Consumer	Human - inhalation	Long term, local effects	DNEL	0,025	mg/m3
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,025	mg/m3
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm2
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/d
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m3
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm2
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d

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, systemic effects	DNEL	471	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1894	mg/m3	

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 (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU).





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| 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.

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.

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:

Chemical resistant protective gloves (EN 374).

If applicable

Safety gloves made of butyl (EN 374)

Minimum layer thickness in mm:

0,4

Protective nitrile gloves (EN 374).

Minimum layer thickness in mm:

0.4

Protective Neoprene® / polychloroprene gloves (EN 374).

0.5

Permeation time (penetration time) in minutes:

>= 480

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.

Protective hand cream recommended.

Skin protection - Other:

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





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Respiratory protection:

Normally not necessary. If OES or MEL is exceeded.

Filter A2 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol. Active substance: liquid. Colour: According to specification

Odour: Characteristic Odour threshold: Not determined pH-value: Not determined Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined Flash point: Not determined Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: Not determined Bulk density: Not determined Solubility(ies): Not determined Water solubility: Insoluble Not determined Partition coefficient (n-octanol/water): Auto-ignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined





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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 decomposition if used as intended.

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

Avoid contact with strong alkalis.

Avoid contact with strong acids.

Amines

10.6 Hazardous decomposition products

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).

4W Vario Foam plus 500) ml					
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Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by						n.d.a.
inhalation:						
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.





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Carcinogenicity:			n.d.a.
Reproductive toxicity:			n.d.a.
Specific target organ			n.d.a.
toxicity - single			
exposure (STOT-SE):			
Specific target organ			n.d.a.
toxicity - repeated			
exposure (STOT-RE):			
Aspiration hazard:			n.d.a.
Symptoms:			n.d.a.

Diphenylmethanediisocyanate, isomeres and homologues								
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral	LD50	>10000	mg/kg	Rat	OECD 401 (Acute			
route:					Oral Toxicity)			
Acute toxicity, by	LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute			
dermal route:					Dermal Toxicity)			
Acute toxicity, by	LC50	0,49	mg/l/4h	Rat	OECD 403 (Acute	Aerosol,		
inhalation:					Inhalation	Does not		
					Toxicity)	conform		
					•	with EU		
						classification		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant		
					Dermal			
					Irritation/Corrosio			
					n)			
Serious eye				Rabbit	OECD 405 (Acute	Mild irritant		
damage/irritation:					Eye			
_					Irritation/Corrosio			
					n)			
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin		
sensitisation:					Sensitisation)	contact)		
Germ cell mutagenicity:					OECD 474	Negative		
					(Mammalian			
					Erythrocyte			
					Micronucleus			
					Test)			
Carcinogenicity:		1	mg/m3	Rat	OECD 453	Positive		
					(Combined			
					Chronic			
					Toxicity/Carcinoge			
					nicity Studies)			
Reproductive toxicity:	NOAEL	12	mg/m3	Rat	OECD 414	Negative,		
-					(Prenatal	Aerosol		
					Developmental			
					Toxicity Study)			





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Reproductive toxicity (Developmental toxicity):		4		Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity (Effects on fertility):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Specific target organ toxicity - single exposure (STOT-SE):					3,	Irritation of the respiratory tract
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEC	0,2	mg/kg		OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	
Aspiration hazard:						No
Symptoms:						fever, coughing, headaches, nausea and vomiting., dizziness, breathing difficulties, laryngeal oedema, oedema of the lungs, chemical pneumonitis (condition similar to pneumonia), abdominal pain, diarrhoea
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Target organ(s): respiratory organs, May cause respiratory irritation.

Glycerine propoxylate						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	933-1072	mg/kg	Rat		
route:						





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Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	Analogous conclusion
				D 111	Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Analogous
					Dermal	conclusion,
					Irritation/Corrosio	Not irritant
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Analogous
damage/irritation:				Kabbit	Eye	conclusion,
damage/irritation.						
					Irritation/Corrosio	Not irritant
B				a	n)	N T :
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not
sensitisation:					Sensitisation)	sensitizising
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not
sensitisation:					Sensitisation)	sensitizising
						(Analogous
						conclusion),
						Analogous
						conclusion
Germ cell mutagenicity:				Salmonella	OECD 471	No
2 ,				typhimuri	(Bacterial Reverse	indications
				um	Mutation Test)	of such an
				um	, induction rest,	effect.,
						Analogous
						conclusion
Germ cell mutagenicity:				Mammalia	OECD 476 (In	
Germ cen mutagementy:					`	Negative,
				n	Vitro Mammalian	Analogous
					Cell Gene	conclusion
					Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In	Analogous
					Vitro Mammalian	conclusion,
					Chromosome	Negative
					Aberration Test)	
Reproductive toxicity	NOAEL	1000	mg/kg	Rat	OECD 421	Analogous
(Developmental					(Reproduction/Dev	conclusion,
toxicity):					elopmental	Female
• /					Toxicity	
					Screening Test)	
Reproductive toxicity	NOAEL	1000	mg/kg	Rat	OECD 421	Analogous
(Effects on fertility):	TIOALL	1000	IIIg/Kg	Rat	(Reproduction/Dev	conclusion
(Linceis on icitility).					elopmental	COHCIUSION
					Toxicity	
					Screening Test)	





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Specific target organ	NOAEL	1000	mg/kg	Rat	OECD 407	Analogous
toxicity - repeated					(Repeated Dose	conclusion
exposure (STOT-RE),					28-Day Oral	
oral:					Toxicity Study in	
					Rodents)	

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt			- g		
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)	
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
					(Combined	
					Chronic	
					Toxicity/Carcinoge	
					nicity Studies)	
Reproductive toxicity:	NOAEL	5000	ppm	Rat	OECD 414	
					(Prenatal	
					Developmental	
					Toxicity Study)	
Specific target organ	NOAEC	47106	mg/kg	Rat	OECD 452	Negative(2
toxicity - repeated					(Chronic Toxicity	a)
exposure (STOT-RE):					Studies)	
Aspiration hazard:						No





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Symptoms:			unconsciousn
			ess,
			headaches,
			mucous
			membrane
			irritation,
			dizziness,
			nausea and
			vomiting.,
			frostbite,
			gastrointestin
			al
			disturbances,
			respiratory
			distress,
			circulatory
			collapse

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	LC50	658	mg/l/4h	Rat		
inhalation:						
Skin corrosion/irritation:						Not irritant
Serious eye						Not irritant
damage/irritation:						
Germ cell mutagenicity:					OECD 471	Negative
					(Bacterial Reverse	
					Mutation Test)	





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Reproductive toxicity (Developmental toxicity):	NOAEC	21,641	mg/l	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	
Aspiration hazard:					No
Symptoms:					breathing difficulties, unconsciousn 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).

4W Vario Foam plus 500 ml								
Art.: 9095271								
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:								





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12.2. Persistence	Does not
and degradability:	degrade
	ozone. With
	water at the
	interface,
	transforms
	slowly with
	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.
	Mechanical
	precipitation
	possible.
12.3.	n.d.a.
Bioaccumulative	11.0.0.
potential:	
12.4. Mobility in	n.d.a.
	II.u.a.
soil:	
12.5. Results of	n.d.a.
PBT and vPvB	
assessment	
12.6. Other	n.d.a.
adverse effects:	
Other information:	DOC-
	elimination
	degree(comp
	lexing
	organic
	substance)>=
	80%/28d:
	n.a.

Diphenylmethaned	liisocyanate, i	someres	and hom	ologues			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes





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12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NO EL	21d	>10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to algae:	EC50	72h	>1640	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	0	%		OECD 301 C (Ready Biodegradabil ity - Modified MITI Test (I))	Not biodegradabl e
12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus caprio	OECD 305 (Bioconcentra tion - Flow- Through Fish Test)	A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/NO EL	14d	>1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	





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Other information:	BOD	28d	<10	%	OECD 302 C	
					(Inherent	
					Biodegradabil	
					ity - Modified	
					MITI Test	
					(II))	
Other information:						Does not
						contain any
						organically
						bound
						halogens
						which can
						contribute to
						the AOX
						value in
						waste water.

Glycerine propoxy							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l		Regulation (EC) 440/2008 C.1 (ACUTE TOXICITY	
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Leuciscus idus	FOR FISH) OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l		OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to daphnia:	NOEC/NO EL	21d	>10	mg/l		OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	NOEC/NO EL	21d	>=10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	Analogous conclusion
12.1. Toxicity to algae:	LC50	72h	>1000	mg/l		84/449/EEC C.3	





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12.1. Toxicity to algae:	ErC50	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	1,9	%		OECD 301 A (Ready Biodegradabil ity - DOC Die-Away Test)	
12.2. Persistence and degradability:		28d	40	%		OECD 301 B (Ready Biodegradabil ity - Co2 Evolution Test)	Not readily biodegradabl e
12.2. Persistence and degradability:							Not readily biodegradabl e
Toxicity to bacteria:	EC10	3h	>1000	mg/l	activated sludge	Regulation (EC) 440/2008 C.11 (BIODEGRA DATION - ACTIVATED SLUDGE RESPIRATIO N INHIBITION)	Analogous conclusion

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)	





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12.3. Bioaccumulative potential:	Log Pow	-0,07			Bioaccumula tion is unlikely (LogPow < 1). 25°C (pH 7)
12.4. Mobility in soil:	H (Henry)	518,6	Pa*m3/ mol		No adsorption in soil.
12.5. Results of PBT and vPvB assessment					No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	>1600	mg/l	Pseudomonas putida	
Other information:					Does not contain any organically bound halogens which can contribute to the AOX value in waste water.DIN EN 1485
Water solubility:		45,60	mg/l		25°C

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3.							A notable
Bioaccumulative potential:							biological accumulation
							potential is not to be
							expected
							(LogPow 1-
							3).
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l			
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





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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.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

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):2.114.4. Packing group:-Classification code:5FLQ:1 L

14.5. Environmental hazards: Not applicable







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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

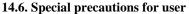
Transport by air (IATA)

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



Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into 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:

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

Regulation (EC) No 1907/2006, Annex XVII

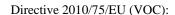
Diphenylmethanediisocyanate, isomeres and homologues

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.):

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.







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REGULATION (EC) No 648/2004

n.a.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2,16

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 $(EG)\ 1272/2008\ (CLP)$:

Classification in accordance with regulation (EC)	Evaluation method used
No. 1272/2008 (CLP)	
Acute Tox. 4, H332	Classification according to calculation procedure.
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.

Acute Tox. — Acute toxicity - inhalation

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



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Aerosol — Aerosols

Acute Tox. — Acute toxicity - oral

Flam. Gas — Flammable gases (including chemically unstable gases)

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)

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

EPA United States Environmental Protection Agency (United States of America)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

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

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships





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n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million 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. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

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 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.