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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

4W-Vario-Foam Plus 750 ML Art.: 9045027

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 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 / 24 112 112 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)						
Hazard class	Hazard 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.				



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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)



Danger

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 Substances



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3.2 Mixtures

3.2 MIXtures	
Diphenylmethanediisocyanate, isomeres and homologues	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9016-87-9
content %	25-50
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	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, REACH-IT List-No.	
CAS	25791-96-2
content %	10-<25
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP), M-factors	

Dimethyl ether	Substance for which an EU exposure limit
	value applies.
Registration number (REACH)	
Index	603-019-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	204-065-8
CAS	115-10-6
content %	1-10
Classification according to Regulation (EC) 1272/2008	Flam. Gas 1A, H220
(CLP), M-factors	

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.



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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

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**

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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media CO2Foam 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.



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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 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.



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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. 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

(B) Chemical Name	Diphenylmeth	aanediisocyanate, isomeres	and homologues		Content %:25-50
WEL-TWA: 0,02 mg/m3 (Isocyanates,	WEL-STEL: 0,07 mg/	m3 (Isocyanates,		
all (as -NCO))		all (as -NCO))			
Monitoring procedures:	-				
BMGV: 1 µmol isocyanate	e-derived diamir	ne/mol creatinine in urine	Other information:	Sen	(Isocyanates,
(At the end of the period of e	exposure)		all (as -NCO))		
^(B) Chemical Name	Dimethyl ethe				Content %:1- 10
WEL-TWA: 400 ppm (766		WEL-STEL: 500 ppm	(958 mg/m3)		
(WEL), 1000 ppm (1920 mg	(m3) (EU)	(WEL)			
Monitoring procedures:	-	Compur - KITA-123 S (54	, ,		
BMGV:			Other information:		
Chemical Name	Isobutane				Content %:
WEL-TWA: 1000 ppm (E.	X) (ACGIH)	WEL-STEL:			
Monitoring procedures:	- (Compur - KITA-113 SB(C	C) (549 368)		
BMGV:			Other information:		
Chemical Name	Propane				Content %:
WEL-TWA: 1000 ppm (A	CGIH)	WEL-STEL:			
Monitoring procedures:	-	Compur - KITA-125 SA (2	549 954)		
	-	OSHA PV2077 (Propane)	- 1990		
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					



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	Environment - sewage treatment plant		PNEC	1	mg/l
	Environment - soil		PNEC	1	mg/kg
Consumer	Human - oral	Short term, local effects	DNEL	20	mg/kg bw/d
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					



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

^(B) 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). (11) = Inhalable fraction (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 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 controls8.2.1 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. EN 14042.

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 Protective gloves made of butyl (EN 374). Minimum layer thickness in mm: 0,4



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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).

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



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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
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
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).



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4W-Vario-Foam Plus 75	0 ML					
Art.: 9045027						
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.
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.

Diphenylmethanediisocy	anate, ison	neres and ho	mologues			
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
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)



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Germ cell mutagenicity:					OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Carcinogenicity:		1	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Positive
Reproductive toxicity:	NOAEL	12	mg/m3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Aerosol
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):						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, abdominal pain, diarrhoea



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Specific target organ toxicity - single exposure (STOT-SE), inhalative:		Target organ(s): respiratory organs, May cause respiratory
		irritation.

Glycerine propoxylate						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	933-1072	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Analogous conclusion, Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Analogous conclusion, Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising (Analogous conclusion), Analogous conclusion
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	No indications of such an effect., Analogous conclusion
Germ cell mutagenicity:				Mammalia n	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion



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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):					(Reproduction/Dev	conclusion
					elopmental	
					Toxicity	
					Screening Test)	
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)	

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)	
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)	



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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
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:						
Acute toxicity, by	LC50	260000	ppmV/	Rat		Gasses, Male
inhalation:			4h			
Serious eye				Rabbit		Not irritant
damage/irritation:						
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Aspiration hazard:						No
Symptoms:						unconsciousn
						ess,
						frostbite,
						headaches,
						cramps,
						dizziness,
						nausea and
						vomiting.



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Specific target organ	NOAEL	21,394	mg/l	Rat	OECD 422	
toxicity - repeated					(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	

Propane		P				
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/ 4h	Rat		Gasses, Male, Analogous conclusion
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
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: Symptoms:						No breathing difficulties, unconscioust ess, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and



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Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	7,214	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	21,641	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)

SECTION 12: Ecological information

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

4W-Vario-Foam Plus 750 ML								
Art.: 9045027								
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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	1		 	
12.2. Persistence				With water
and degradability:				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				n.u.a.
potential:				
12.4. Mobility in				n.d.a.
soil:				
12.5. Results of				n.d.a.
PBT and vPvB				
assessment				
12.6. Other				n.d.a.
adverse effects:				in.u.a.
			 	 DOC
Other information:				DOC-
				elimination
				degree(comp
				lexing
				organic
				substance)>=
				80%/28d:
			 	 n.a.
Ozone depletion				Does not
potential (ODP):				degrade
			 	 ozone.

Diphenylmethanediisocyanate, isomeres and homologues



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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	NOEC/NO	21d	>10	mg/l	Daphnia	OECD 211	
daphnia:	EL				magna	(Daphnia	
r					8	magna	
						Reproduction	
						Test)	
12.1. Toxicity to	EC50	24h	>1000	mg/l	Daphnia	OECD 202	
daphnia:	Leso	2 111	/ 1000	1115/1	magna	(Daphnia sp.	
dapinna.					magna	Acute	
						Immobilisatio	
						n Test)	
12.1 Toxisity to	EC50	72h	>1640	mg/l	Scenedesmus	OECD 201	
12.1. Toxicity to	EC30	7211	>1040	IIIg/1			
algae:					subspicatus	(Alga,	
						Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	0	%		OECD 301 C	Not
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - Modified	
						MITI Test (I))	
12.3.	BCF	42d	<14		Cyprinus	OECD 305	A notable
Bioaccumulative					caprio	(Bioconcentra	biological
potential:						tion - Flow-	accumulation
						Through Fish	potential is
						Test)	not to be
							expected
							(LogPow 1-
							3).
12.5. Results of							No PBT
PBT and vPvB							substance
assessment							
Toxicity to	EC50	3h	>100	mg/l	activated	OECD 209	
bacteria:				_	sludge	(Activated	
					-	Sludge,	
						Respiration	
						Inhibition	
						Test (Carbon	
						and	
						Ammonium	
						Oxidation))	
Other organisms:	NOEC/NO	14d	>1000	mg/kg	Eisenia	OECD 207	
Curei organisilis.	EL	174	/ 1000	1115/ 115	foetida	(Earthworm,	
					100100	Acute	
						Toxicity	
						Tests)	
L						10818)	



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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	vlate						
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	
						FOR FISH)	
12.1. Toxicity to	LC50	96h	>1000	mg/l	Leuciscus idus	OECD 203	Analogous
fish:						(Fish, Acute	conclusion
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	>1000	mg/l		OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOEC/NO	21d	>10	mg/l		OECD 211	
daphnia:	EL					(Daphnia	
						magna	
						Reproduction	
						Test)	
12.1. Toxicity to	NOEC/NO	21d	>=10	mg/l	Daphnia	OECD 211	Analogous
daphnia:	EL				magna	(Daphnia	conclusion
						magna	
						Reproduction	
						Test)	
12.1. Toxicity to	EC50	48h	>100	mg/l	Daphnia	OECD 202	Analogous
daphnia:					magna	(Daphnia sp.	conclusion
						Acute	
						Immobilisatio	
10.1 5 1 1	1.050	701	1000			n Test)	
12.1. Toxicity to	LC50	72h	>1000	mg/l		84/449/EEC	
algae:						C.3	



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12.1. Toxicity to	ErC50	72h	>100	mg/l	Desmodesmus	OECD 201	Analogous
algae:		/ 211		1115/1	subspicatus	(Alga,	conclusion
algae.					subspicatus	Growth	conclusion
						Inhibition	
10.0 D		20.1	1.0	0/		Test) OECD 301 A	
12.2. Persistence		28d	1,9	%			
and degradability:						(Ready	
						Biodegradabil	
						ity - DOC	
						Die-Away	
						Test)	
12.2. Persistence		28d	40	%		OECD 301 B	Not readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - Co2	
						Evolution	
						Test)	
12.2. Persistence						,	Not readily
and degradability:							biodegradabl
							e
Toxicity to	EC10	3h	>1000	mg/l	activated	Regulation	Analogous
bacteria:			0	0	sludge	(EC)	conclusion
						440/2008	
						C.11	
						(BIODEGRA	
						DATION -	
						ACTIVATED	
						SLUDGE	
						RESPIRATIO	
						N	
						INHIBITION)	

Dimethyl ether	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.	Log Pow	-	-0,07			Bioaccumula
Bioaccumulative						tion is
potential:						unlikely
•						(LogPow <
						1). 25°C
						(pH 7)
12.4. Mobility in	H (Henry)	4	518,6	Pa*m3/		No
soil:				mol		adsorption
						in soil.
12.5. Results of						No PBT
PBT and vPvB						substance,
assessment						No vPvB
						substance
Toxicity to	EC10	2	>1600	mg/l	Pseudomonas	
bacteria:				-	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:		4	45,60	mg/l		25°C

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3.							A notable
Bioaccumulative							biological
potential:							accumulation
							potential is
							not to be
							expected
							(LogPow 1-
							3).
12.1. Toxicity to	LC50	96h	27,98	mg/l			
fish:							
12.1. Toxicity to	EC50	96h	7,71	mg/l			
algae:							
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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D

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):	2.1
14.4. Packing group:	-
Classification code:	5F
LQ:	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			
14.6. Special precautions for user				
Persons employed in transporting dangerous g				
All persons involved in transporting must obse	erve safety regulations.			
Precautions must be taken to prevent damage.				
14.7. Transport in bulk according to Annex				
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.				

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 the protection of young people at work (national implementation of the Directive 94/33/EC)!

Regulation (EC) No 1907/2006, Annex XVII

Diphenylmethanediisocyanate, isomeres and homologues

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

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

Directive 2012/10/20 (beveso iii), i iiilek i, i at 2 i iiis 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. 17 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3

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.



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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

Aerosol — Aerosols Acute Tox. — Acute toxicity - oral

Flam. Gas — Flammable gases - Flammable gas

Any abbreviations and acronyms used in this document:

according, according to acc., acc. 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 approximately approx. Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate 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 body weight bw CAS Chemical Abstracts Service Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling CLP and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. European Community EC ECHA European Chemicals Agency EEC European Economic Community European Inventory of Existing Commercial Chemical Substances **EINECS**



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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

IUPACInternational Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable

n.av. not available

n.c. not checked

n.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 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.