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

#### 1.1 Product identifier

Commercial Product Name Fire Stop Foam

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

Relevant identified uses PU foam with flame retardant

Recommended restrictions None under normal processing. Observe technical data sheet.

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

Company designation fischerwerke GmbH & Co. KG

Klaus-Fischer-Straße 1 D-72178 Waldachtal

Telephone: +49(0)7443 12-0 FAX: +49(0)7443 12-4222 Email: info-sdb@fischer.de Internet: www.fischer.de

Marketer Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd, Hithercroft

Road, Wallingford, Oxfordshire, OX10 9AT, Tel. 01491 827 920, Fax

01491 827 950

#### 1.4 Emergency telephone number

Emergency telephone number +49(0)6132-84463 (24h)

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

#### 2.1 Classification of the substance or mixture

Classification according to Reg- Acute T

ulation (EC) No. 1272/2008

Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373 Aquatic Chronic 2; H411 Flam. Aerosol 1; H222 Carc. 2;

H351

# 2.2 Label elements

Hazard pictogram



GHS07



GHS08



GHS02

Signal word Danger

Hazardous component(s) to be

indicated on label

4, 4'-methylenediphenyl diisocyanate, isomers and homologues, 2,

2-bis(bromomethyl)propane-1, 3-diol

H-statement(s) H302: Harmful if swallowed.

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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 .

H222: Extremely flammable aerosol.

P101: If medical advice is needed, have product container or label at

hand.

P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P251: Do not pierce or burn, even after use.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER

or doctor/physician.

P410+P412: Protect from sunlight. Do no expose to temperatures ex-

ceeding 50 °C/122 °F.

P501: Dispose of contents/container to special waste treatment

Further information

P-statement(s)

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking. Keep out of the reach of children. Buildup of explosive mixtures possible without sufficient ventilation.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

#### 2.3 Other hazards

Health hazard None known.

Particular information pertaining specific risk for human / enNone known.

vironment

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Indication of danger None known.

Hazard precautions None known.

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

# **Hazardous ingredients**

Ingredient		Classification (EC) 1272/2008	Concen- tration
4,4'-methylenediphenyl di- isocyanate, isomers and homologues	CAS No.: 9016-87-9 REACH No.: The substance does not require registra- tion according to Regula- tion (EC) No 1207/2006 [REACH].	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	25.0 – 50.0 % by weight
Bis(2-ethylhexyl) tetrabro- mophthalat	CAS No.: 26040-51-7 EC-No.: 247-426-5	Eye Irrit. 2; H319 Aquatic Acute 1; H400	10.0 – 25.0 % by weight
tris(2-chloro-1- methylethyl) phosphate	CAS No.: 13674-84-5 EC-No.: 237-158-7 REACH No.: 01-2119486772-26, 01-2119447716-31	Acute Tox. 4; H302	10.0 – 25.0 % by weight
triethyl phosphate	CAS No.: 78-40-0 EC-No.: 201-114-5 Index-No.: 015-013-00-7 REACH No.: 01-2119492852-28	Acute Tox. 4; H302	10.0 – 25.0 % by weight
ethanediol, ethylene glycol	CAS No.: 107-21-1 EC-No.: 203-473-3 Index-No.: 603-027-00-1 REACH No.: 01-2119456816-28	Acute Tox. 4; H302 STOT RE 2; H373	10.0 – 25.0 % by weight
propane	CAS No.: 74-98-6 EC-No.: 200-827-9 Index-No.: 601-003-00-5 REACH No.: 01-2119486944-21	Flam. Gas 1; H220 Press. Gas; H280	2.5 – 10.0 % by weight
dimethyl ether	CAS No.: 115-10-6 EC-No.: 204-065-8 Index-No.: 603-019-00-8 REACH No.: 01-2119472128-37, 01-2119519269-33	Flam. Gas 1; H220 Press. Gas; H280	2.5 – 10.0 % by weight
2,2- bis(bromomethyl)propane-1 diol	CAS No.: 3296-90-0 5 <u>C</u> -No.: 221-967-7	Carc. 2; H351	2.5 – 10.0 % by weight
isobutane	CAS No.: 75-28-5 EC-No.: 200-857-2 Index-No.: 601-004-00-0 REACH No.: 01-2119485395-27	Flam. Gas 1; H220 Press. Gas; H280	2.5 – 10.0 % by weight
Difluorethan (Freon 152)	CAS No.: 75-37-6 EC-No.: 200-866-1 REACH No.: 01-2119474440-43	Press. Gas; H280 Flam. Gas 1; H280	2.5 – 10.0 % by weight

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

General advice If symptoms persist, call a physician.

Take off all contaminated clothing immediately.

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Remove/Take off immediately all contaminated clothing.

If inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

If unconscious place in recovery position and seek medical advice.

In case of skin contact

Use mechanical handling equipment.

IF ON SKIN: Gently wash with plenty of soap and water.

In case of eye contact

Use mechanical handling equipment.

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If swallowed, seek medical advice immediately and show this contain-

er or label.

Clean mouth with water and drink afterwards plenty of water. Drink 1

or 2 glasses of water. Do NOT induce vomiting.

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

Symptoms No data available

# 4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention No data available
Special medical treatment No data available

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

# 5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2)

Dry powder

Foam

Water spray jet

Extinguishing media which must

not be used for safety reasons

High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising Container may rupture on heating. from the substance or prepara— Heating or fire can release toxic gas.

tion itself, its combustion prod-

ucts, or released gases

May form explosive mixtures in air.

#### 5.3 Advice for firefighters

Special protective equipment for In the event of fire, wear self-contained breathing apparatus.

firefighting In the event of fire and/or explosion do not breathe fumes.

Additional information on fire-

fighting

Fire residues and contaminated fire extinguishing water must be dis-

posed of in accordance with local regulations.

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Keep containers and surroundings cool with water spray. Container

may rupture on heating.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Keep away from sources of ignition - No smoking. Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Environmental precautions The product should not be allowed to enter drains, water courses or

the soil.

Prevent spreading over a wide area (e.g. by containment or oil barri-

ers).

# 6.3 Methods and material for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust).

Allow to solidify, use mechanical handling equipment.

Ensure adequate ventilation. Do not flush with water.

#### 6.4 Reference to other sections

Reference to other sections See chapter 8/13

#### 6.5 Additional information

Other information Treat recovered material as described in the section "Disposal consid-

erations".

Dispose of in accordance with local regulations.

#### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling Handle and open container with care.

Provide sufficient air exchange and/or exhaust in work rooms. Vapours are heavier than air and may spread along floors.

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire

even after use. Do not spray on flames or red-hot objects.

Advice on protection against fire

and explosion

Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any other incandescent material.

Keep away from sources of ignition - No smoking.

In use, may form flammable/explosive vapour-air mixture. Take measures to prevent the build up of electrostatic charge.

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# 7.2 Conditions for safe storage, including any incompatibilities

Storage space and container re- Keep containers tightly closed in a cool, well-ventilated place.

quirements Container may rupture on heating.

Store in accordance with local regulations.

German storage class LGK 2B (TRGS 510)

7.3 Specific end use(s)

Specific use(s) installation foam . Further information: see technical data sheet.

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### ethanediol, ethylene glycol

#### Great Britain

Long-term expo- sure value/ ppm	Long-term expo- sure value/ mg/ m3	Short-term ex- posure value / ppm	Short-term ex- posure value / mg/m3	Remarks	Source
	10			particulate; Can be absorbed through the skin.	19
20	52	40	104	vapour; Can be absorbed through the skin.	19

Source: 19 - EH40/2005 Workplace exposure limits (2011)

#### Europe

Long-term	Long-term	Short-term	Short-term	Note	Issuing date	Source
exposure val-	exposure val-	exposure val-	exposure val-			
ue/ mg/m3	ue/ ppm	ue / mg/m3	ue / ppm			
52	20	104	40	Skin	2000/39	24

Source: 24 - DIRECTIVE 2009/161/EU

#### dimethyl ether

#### Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m3		Short-term exposure value / mg/m3	Source
400	766	500	958	19

Source: 19 - EH40/2005 Workplace exposure limits (2011)

# Europe

Long-term exposure value/	Long-term exposure value/	Issuing date	Source
mg/m3	ppm		
1 920	1 000	2000/39	24

Source: 24 - DIRECTIVE 2009/161/EU

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8.2 Exposure controls

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Hand protection professional users (long contact): Wear protective gloves.

Suitable material: butyl-rubber, Chloroprene, Nitrile rubber

Unsuitable material: PVC disposable gloves

Material thickness: >= 0,5 mm

Break through time: >120 min

Remarks: Replace when worn.

Reference substance: Request information on glove permeation properties from the glove

supplier.. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside in-

fluences (e.g. temperature).

private users (short contact):

Suitable material: attached disposable gloves

Remarks: Use gloves once only.

Eye protection Tightly fitting safety goggles

Skin and body protection Wear suitable protective equipment.

Note: Choose body protection according to the amount and concentration

of the dangerous substance at the work place.

General protective and hygiene

measures

Smoking, eating and drinking should be prohibited in the application

area.

Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately.

Do not breathe vapors, mist or gas.

Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.

Information on environmental

protection regulations

No special environmental precautions required.

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

#### 9.1 Information on basic physical and chemical properties

Physical state Aerosol

Colour various

Additional information on see label

colour:

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Odour characteristic Odour threshold not determined

not applicable рН

Boiling point [°C] not applicable (aerosol)

Initial boiling point [°C] and

boiling range [°C]

No data available

Flash point [°C] not applicable. (aerosol)

Evaporation rate [kg/(s\*m<sup>2</sup>)] No data available

Extremely flammable aerosol Flammability (solid, gas)

Explosion limits [Vol-%]

Lower limit: No data available Upper limit: No data available

Vapour pressure [kPa] No data available No data available Vapour density

Relative density 1.1

Water solubility [q/l] immiscible

Solubility [g/l] No data available

Partition coefficient n-octanol /

water (log P O/W)

not determined

Autoignition temperature [°C] not determined

not auto-flammable Autoinflammability

Decomposition temperature [°C] not determined

**Explosive** properties Not explosive

Risk of explosion. In use, may form flammable/explosive vapour-air mixture.

No data available Oxidising properties

9.2 Other information

Relative vapour density (air=1) not determined

# **SECTION 10: Stability and reactivity**

10.1 Reactivity

Thermal decomposition No decomposition if stored and applied as directed.

10.2 Chemical stability

Chemical stability Stable under recommended storage conditions.

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10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid Container may rupture on heating.

No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid No dangerous reaction known under conditions of normal use.

10.6 Hazardous decomposition products

Hazardous decomposition prod- Carbon oxides

ucts nitrogen oxides (NOx)

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

# **Hazardous ingredients**

#### 4,4'-methylenediphenyl diisocyanate, isomers and homologues

Oral toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
> 5000	LD50	rat	OECD 423	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 5000	LD50	rabbit	100

Source: 100 - Company data

Inhalative toxicity [mg/l]	Test criterion	Exposure duration	Source
1,5	LC50	4 h	100

Source: 100 - Company data

Irritant effect on the respi- Irritant

ratory tract

#### Bis(2-ethylhexyl) tetrabromophthalat

Oral toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
> 5000	LD50	rat	OECD 401	100

Source: 100 - Company data

Dermal toxicity [mg/	Test criterion	Test species	Remarks	Source
kg]				
> 2000	LD50	rabbit	OECD 402	100

Source: 100 - Company data

Carcinogenic effects No data available

Mutagenicity Ames test negative.

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No data available Reproduction toxicity Caustic effect No data available

Specific target organ toxicity (single expo-	Remarks	Source
sure) [mg/kg]		
	No data available	100

Source: 100 - Company data

Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	No data available	100

Source: 100 - Company data

#### tris(2-chloro-1-methylethyl) phosphate

Oral toxicity [mg/kg]	Test criterion	Test species	Source
2800	LD50	rat	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Duration	Remarks	Source
> 2000	LD50	rabbit	24 h	OECD 402	100

Source: 100 - Company data

Inhalative toxicity [mg/l]	Test criterion	Test species	Note	Exposure dura- tion	Source
> 5	LC50	rat	OECD 403	4 h	100

Source: 100 - Company data

#### ethanediol, ethylene glycol

Oral t	oxicity [mg/kg]	Source
Harmf	ul if swallowed.	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 3500	LD50	rabbit	100

Source: 100 - Company data

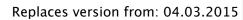
Inhalative toxicity	Test criterion	Test species	Note	Exposure dura-	Source
[mg/l]				tion	
> 2,5	LC50	rat	(as aerosol)	6 h	100

Source: 100 - Company data

none carcinogenic effects Carcinogenic effects

Mutagenicity Not applicable. Reproduction toxicity Not applicable. Caustic effect No data available

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Specific target organ toxicity (repeated ex- posure) [mg/kg]	Route of exposure	Organs affected	Specific effects	Source
	Ingestion	kidney	Causes damage to or- gans through pro- longed or repeated ex- posure.	100
	Skin contact	kidney	Causes damage to or- gans through pro- longed or repeated ex- posure.	100

Source: 100 - Company data

#### propane

Oral toxicity [mg/kg]	Source
No data available	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Source
No data available	100

Source: 100 - Company data

Inhalative toxicity	Test criterion	Test species	Exposure duration	Source
[mg/l]				
20	LC50	rat	4 h	100

Source: 100 - Company data

#### dimethyl ether

Inhalative toxicity	Test criterion	Test species	Exposure duration	Source
[mg/l]				
308	LC50	rat	4 h	100

Source: 100 - Company data

# 2,2-bis(bromomethyl)propane-1,3-diol

ſ	Oral toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
	> 2000	LD50	rat	literature value	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
> 5000	LD50	rat	literature value	100

Source: 100 - Company data

Inhalative toxicity [mg/l]	Source
No data available	100

Source: 100 - Company data

No data available Carcinogenic effects Mutagenicity Ames test negative.

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Test species Rat.

Reproduction toxicity No data available

Caustic effect No data available

Specific target organ toxicity (single expo-	Remarks	Source
sure) [mg/kg]		
	No data available	100

Source: 100 - Company data

Specific target organ toxicity (repeated exposure) [mg/kg]	Remarks	Source
	No data available	100

Source: 100 - Company data

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Oral toxicity [mg/kg]	Source
No data available	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Source
No data available	100

Source: 100 - Company data

Inhalative toxicity	Test criterion	Test species	Exposure duration	Source
[mg/l]				
> 50	LC50	rat	4 h	100

Source: 100 - Company data

Sensitization May cause sensitization by inhalation and skin contact.

#### 11.2 Additional information

Other information (chapter 11.) The product itself has not been tested.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### **Hazardous ingredients**

#### 4,4'-methylenediphenyl diisocyanate, isomers and homologues

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure dura- tion	Measuring method	Source
> 100	LC50	Brachydanio rerio	96 h	OECD Test Guide-	100
		(zebra fish)		line 203	

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Source: 100 - Company data

Toxicity to daph- nia [mg/l]	Test criterion	Test species	· •	Measuring method	Source
> 1000	EC50	Daphnia magna			100
		(Water flea)		line 202	

Source: 100 - Company data

Toxicity to algae [mg/	Test criterion	Test species	Exposure duration	Source
[]				
> 1640	ErC50:	Scenedesmus subspica-	72 h	100
		tus		

Source: 100 - Company data

NOEC (daphnia) [mg/l]	Test species	Measuring method	Exposure duration	Source
> 10	Daphnia magna (Big	OECD 202	21 d	100
	water flea).			

Source: 100 - Company data

#### Ready degradability

# Bis(2-ethylhexyl) tetrabromophthalat

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure dura- tion	Measuring method	Source
> 1000	LC50	Oncorhynchus mykiss (rainbow trout)	96 h	OECD 203	100

Source: 100 - Company data

Toxicity to daph- nia [mg/l]	Test criterion	Test species	Exposure dura- tion	Measuring method	Source
0,27	EC50	Daphnia magna (Big water flea).	48 h	OECD 202	100

Source: 100 - Company data

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure dura- tion	Measuring method	Source
[1119/1]			tion	method	
> 5,1	ErC50:	Scenedesmus sub-	96 h	OECD 201	100
		spicatus			

Source: 100 - Company data

# tris(2-chloro-1-methylethyl) phosphate

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
98	LC50	Pimephales promelas	96 h	100
		(Pimephales promelas		
		(fathead minnow))		

Source: 100 - Company data

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Toxicity to daph- nia [mg/l]	Test criterion	Test species	Exposure dura- tion	Measuring method	Source
131	EC50	Daphnia magna (Water flea)	48 h	OECD Test Guide- line 202	100

Source: 100 - Company data

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure dura- tion	Measuring method	Source
82	EC50	Selenastrum capri-	72 h	OECD Test Guide-	100
		cornutum		line 201	

Source: 100 - Company data

# Ready degradability

# ethanediol, ethylene glycol

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
72860	LC50	Pimephales promelas	96 h	100
		(Pimephales promelas		
		(fathead minnow))		

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
> 100	EC50	Daphnia magna (Water flea)	48 h	100

Source: 100 - Company data

Toxicity to algae [mg/	Test criterion	Test species	Exposure duration	Source
> 6500	EC50	Selenastrum capricor- nutum	96 h	100

Source: 100 - Company data

NOEC (fish) [mg/l]	Test criterion	Test species	Exposure duration	Source
15380	NOEC	Pimephales promelas	7 d	100
		(fathead minnow)		

Source: 100 - Company data

NOEC (daphnia) [mg/l]	Test criterion	Exposure duration	Source
8590	NOEC	7 d	100

Source: 100 - Company data

# Ready degradability

#### propane

Toxicity to fish [mg/l]	Test criterion	Exposure duration	Source
> 1000	LC50	96 h	100

Source: 100 - Company data

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Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
14,22		Daphnia magna (Big water flea).	48 h	100

Source: 100 - Company data

Toxicity to algae [mg/	Test criterion	Test species	Exposure duration	Source
[1]				
7,71	EC50	Scenedesmus quadri-	96 h	100
		cauda (Green algae)		

Source: 100 - Company data

#### Ready degradability

# dimethyl ether

Toxicity to fish [mg/l]	Test criterion	Exposure duration	Source
> 1000	LC50	96 h	100

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
> 4400	LC50	Daphnia magna (Water flea)	48 h	100

Source: 100 - Company data

Toxicity to algae [mg/	Test criterion	Test species	Exposure duration	Source
154,917		Scenedesmus quadri- cauda (Green algae)	96 h	100

Source: 100 - Company data

# Ready degradability

# 2,2-bis(bromomethyl)propane-1,3-diol

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
> 100	LC50	Oncorhynchus mykiss	96 h	100
		(rainbow trout)		

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
> 100		Daphnia magna (Big water flea).	48 h	100

Source: 100 - Company data

Toxicity to algae [mg/l]	Source
No data available	100

Source: 100 - Company data

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#### **ISOBUTANE**

Toxicity to fish [mg/l]	Test criterion	Exposure duration	Source
27,98	LC50	96 h	100

Source: 100 - Company data

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
14,22		Daphnia magna (Big water flea).	48 h	100

Source: 100 - Company data

Toxicity to algae [mg/	Test criterion	Test species	Exposure duration	Source
7,71		Scenedesmus quadri- cauda (Green algae)	96 h	100

Source: 100 - Company data

Ready degradability

#### 12.2 Persistence and degradability

Elimination and distribution

mechanisms

No information available.

Elimination in purification plant No data available Biodegradability No data available

# 12.3 Bioaccumulative potential

Bioaccumulation no data available Bioconcentration factor (BCF) No data available

#### 12.4 Mobility in soil

Distribution in the environment No data available

Mobility

No data available Mobility:

#### 12.5 Results of PBT and vPvB assessment

Results of PBT characteristics

determination

This preparation contains no substance considered to be persistent,

bioaccumulating nor toxic (PBT).

This preparation contains no substance considered to be very persis-

tent nor very bioaccumulating (vPvB).

# 12.6 Other adverse effects

Further information on ecology The product itself has not been tested.

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# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Disposal considerations Disposal together with normal waste is not allowed. Special disposal

required according to local regulations.

The product should not be allowed to enter drains, water courses or

the soil.

Empty remaining contents.

Waste Code 080501 – waste isocyanates

160504 - gases in pressure containers (including halons) containing

dangerous substances

cured material: 200000 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

Uncleaned empty packaging Dispose of as unused product.

# **SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1950	1950	1950
14.2 Description of the	AEROSOLS	AEROSOLS	
goods			
14.2 UN proper shipping		AEROSOLS	Aerosols, flammable
name			
14.3 Transport hazard	2	2.1	2.1
class(es)			
Remarks	inflammable	(maximum 1 L) flammable	
Labels	2.1	2.1	2.1
			<u>*</u>
	2	•	3
Category	2		
Classification Code	5F		
Tunnel restriction code	D		
14.5 Environmental haz-		0: Non-marine pollutant	
ards			
EmS		F-D;S-U	
Stowage category		Α	

#### 14.6 Special precautions for user

Precautions not required under normal use

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

Transport in bulk according to not applicable

Annex II of MARPOL and the IBC

Code

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# **SECTION 15: Regulatory information**

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

Additional regulations Persons already sensitised to diisocyanates may develop allergic re-

actions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate

gas filter (i.e. type A1 according to standard EN 14387) is used.

Water hazard class (self-classifi-

cation)

Cassification in compliance with the Industrial Safety Regulation

#### 15.2 Chemical safety assessment

Safety assessment Not relevant. Chemical safety assessments for substances in this mix-

ture were not carried out.

#### **SECTION 16: Other information**

Relevant H-phrases H220: Extremely flammable gas.

H222: Extremely flammable aerosol.

H280: Contains gas under pressure; may explode if heated.

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.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

Skin Irrit.: Skin irritation

Eye Irrit.: Serious eye irritation

Resp. Sens.: Respiratory sensitization

Skin Sens.: Skin sensitization

STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure

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Aquatic Chronic: Hazardous to the aquatic environment

Flam. Aerosol: Flammable aerosol

Carc.: Carcinogenicity

Aquatic Acute: Hazardous to the aquatic environment

Flam. Gas: Flammable gas

Press. Gas: Gases under pressure

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification	Evaluation
Acute Tox. 4; H302	Calculated
Acute Tox. 4; H332	Calculated
Skin Irrit. 2; H315	Calculated
Eye Irrit. 2; H319	Calculated
Resp. Sens. 1; H334	Calculated
Skin Sens. 1; H317	Calculated
Carc. 2, H351	Calculated
Flam. Aerosol 1; H222	Experimental data
STOT SE 3; H335	Calculated
STOT RE 2; H373	Calculated

Recommended restrictions

None under normal processing. Observe technical data sheet.

Modifications of the previous version are denoted with an asterisk (\*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.