

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 22.02.2011

Version: 10.0

Product: **Elastospray 1612/12 Polyol component**

(ID no. 30260264/SDS_GEN_EU/EN)

Date of print 02.04.2011

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Elastospray 1612/12 Polyol component

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

Relevant identified uses: Chemical

Recommended use: polyurethane component

Details of the supplier of the safety data sheet

Company:

BASF Polyurethanes GmbH

Postfach 1140

49440 Lemfoerde, GERMANY

Telephone: +49 5443 12-2121

E-mail address: Product-Safety-Elastogran@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:

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Signal Word:

Danger

Hazard Statement:

H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.
EUH059	Hazardous to the ozone layer.

Precautionary Statements (Prevention):

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements (Response):

P303 + P352	IF ON SKIN (on hair): Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

According to Directive 67/548/EEC or 1999/45/EC

Directive 1999/45/EC ('Preparation Directive')

Hazard symbol(s)

N	Dangerous for the environment.
Xi	Irritant.

R-phrases(s)

R36	Irritating to eyes.
R59	Dangerous for the ozone layer.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Hazard determining component(s) for labelling: 2-dimethylaminoethanol

Classification of the substance or mixtureAccording to Regulation (EC) No 1272/2008 [CLP]

Chronic hazards to the aquatic environment: Cat. 3

Skin corrosion/irritation: Cat. 2

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Serious eye damage/eye irritation: Cat. 1
Hazardous for the Ozone Layer.

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

Irritating to eyes.

Dangerous for the ozone layer.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Other Hazards (GHS):

No specific dangers known, if the regulations/notes for storage and handling are considered.

Assessment PBT / vPvB:

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria..

3. Composition/Information on Ingredients

Mixtures

Chemical nature

Preparation based on: polyetherpolyol, catalyst, stabilizing agents, flameproofing agent, partially halogenated chlorofluorohydrocarbons (HCFC)

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

dibutyltin dilaurate

Content (W/W): $\geq 0.1\%$ - $< 0.3\%$

CAS Number: 77-58-7

EC-Number: 201-039-8

Acute tox.: Cat. 4 (oral)

Acute tox.: Cat. 4 (dermal)

Eye dam./irr.: Cat. 2

Skin corr./irr.: Cat. 2

STOT rep.: Cat. 1 (oral)

Repro.: Cat. 1B (fertility)

Repro.: Cat. 1B (unborn child)

Muta.: Cat. 2

Eco chronic: Cat. 1

Eco acute: Cat. 1

H302, H312, H315, H319, H341, H360FD, H372,
H400, H410

2-dimethylaminoethanol

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Content (W/W): $\geq 3\%$ - $< 5\%$	Flam. Liq.: Cat. 3
CAS Number: 108-01-0	Acute tox.: Cat. 4 (oral)
EC-Number: 203-542-8	Acute tox.: Cat. 4 (dermal)
REACH registration number: 01-2119492298-24	Acute tox.: Cat. 3 (Inhalation - vapour)
INDEX-Number: 603-047-00-0	Skin corr./irr.: Cat. 1B
	H226, H302, H312, H314, H331

Diethylene glycol

Content (W/W): $\geq 1\%$ - $\leq 15\%$	Acute tox.: Cat. 4 (oral)
CAS Number: 111-46-6	H302
EC-Number: 203-872-2	
REACH registration number: 01-2119457857-21	
INDEX-Number: 603-140-00-6	

1,1-dichloro-1-fluoroethane (R 141 b)

Content (W/W): $< 20\%$	Eco chronic: Cat. 3
CAS Number: 1717-00-6	Ozone
EC-Number: 404-080-1	H412, EUH059

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)

Content (W/W): $\geq 0.1\%$ - $< 3\%$	Acute tox.: Cat. 4 (oral)
CAS Number: 3033-62-3	Acute tox.: Cat. 2 (Inhalation - dust)
EC-Number: 221-220-5	Acute tox.: Cat. 3 (dermal)
	Skin corr./irr.: Cat. 1B
	Eco chronic: Cat. 3
	H302, H330, H311, H314, H412

tris(2-chloro-1-methylethyl)phosphate

Content (W/W): $< 25\%$	Acute tox.: Cat. 4 (oral)
CAS Number: 13674-84-5	H302
EC-Number: 237-158-7, 911-815-4	
REACH registration number: 01-2119486772-26	

Ethylenediamine, propoxylated

Content (W/W): $\geq 15\%$ - $\leq 25\%$	Eye dam./irr.: Cat. 2
CAS Number: 25214-63-5	H319
EC-Number: 500-035-6	
REACH registration number: 01-2119471485-32	

2,2-Dimethylpropan-1-ol, tribromo derivative

Content (W/W): $\geq 1\%$ - $\leq 5\%$	Eye dam./irr.: Cat. 2
CAS Number: 36483-57-5	H319
EC-Number: 253-057-0	

Hazardous ingredients

according to Directive 1999/45/EC

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dibutyltin dilaurate

Content (W/W): $\geq 0.1\%$ - $< 0.3\%$

CAS Number: 77-58-7

EC-Number: 201-039-8

Hazard symbol(s): T, N

R-phrase(s): 21/22, 36/38, 48/25, 50/53, 60, 61, 68

2-dimethylaminoethanol

Content (W/W): $\geq 3\%$ - $< 5\%$

CAS Number: 108-01-0

EC-Number: 203-542-8

REACH registration number: 01-2119492298-24

INDEX-Number: 603-047-00-0

Hazard symbol(s): C

R-phrase(s): 10, 34, 20/21/22

Diethylene glycol

Content (W/W): $\geq 1\%$ - $\leq 15\%$

CAS Number: 111-46-6

EC-Number: 203-872-2

REACH registration number: 01-2119457857-21

INDEX-Number: 603-140-00-6

Hazard symbol(s): Xn

R-phrase(s): 22

1,1-dichloro-1-fluoroethane (R 141 b)

Content (W/W): $< 20\%$

CAS Number: 1717-00-6

EC-Number: 404-080-1

Hazard symbol(s): N

R-phrase(s): 52/53, 59

N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)

Content (W/W): $\geq 0.1\%$ - $< 3\%$

CAS Number: 3033-62-3

EC-Number: 221-220-5

Hazard symbol(s): T

R-phrase(s): 22, 23/24, 34, 52/53

tris(2-chloro-1-methylethyl)phosphate

Content (W/W): $< 25\%$

CAS Number: 13674-84-5

EC-Number: 237-158-7

REACH registration number: 01-2119486772-26

Hazard symbol(s): Xn

R-phrase(s): 22

Ethylenediamine, propoxylated

Content (W/W): $\geq 15\%$ - $\leq 25\%$

CAS Number: 25214-63-5

EC-Number: 500-035-6

REACH registration number: 01-2119471485-32

Hazard symbol(s): Xi

R-phrase(s): 36

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2,2-Dimethylpropan-1-ol, tribromo derivative

Content (W/W): $\geq 1\%$ - $\leq 5\%$

CAS Number: 36483-57-5

EC-Number: 253-057-0

Hazard symbol(s): Xi

R-phrase(s): 36

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

Description of first aid measures

Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air. If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Eye irritation, skin irritation

Hazards: Symptoms can appear later.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Special hazards arising from the substance or mixture

carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, Phosphorus compounds

The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment:

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Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

Personal precautions, protective equipment and emergency procedures

Sources of ignition should be kept well clear. Use personal protective clothing.

Environmental precautions

Do not empty into drains. Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of contaminated material as prescribed.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Sources of ignition should be kept well clear.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Suitable materials for containers: carbon steel (iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), tin (tinplate), Stainless steel 1.4301 (V2)

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

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77-58-7: dibutyltin dilaurate

111-46-6: Diethylene glycol

Hazardous Components with PNEC

108-01-0: 2-dimethylaminoethanol

111-46-6: Diethylene glycol

13674-84-5: tris(2-chloro-1-methylethyl)phosphate

| 25214-63-5: Ethylenediamine, propoxylated (> 1 < 8,5 mol PO)

Hazardous Components with DNEL

108-01-0: 2-dimethylaminoethanol

111-46-6: Diethylene glycol

| 25214-63-5: Ethylenediamine, propoxylated (> 1 < 8,5 mol PO)

Exposure controlsPersonal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

General safety and hygiene measures

Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is required additionally to the stated personal protection equipment. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

9. Physical and Chemical Properties**Information on basic physical and chemical properties**

Form:	liquid
Colour:	amber
Odour:	amine-like

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Odour threshold:

not applicable

pH value:

approx. 6 - 8
(20 °C)

solidification temperature: 0 °C

Boiling point:

> 140 °C
(1,013 hPa)

Flash point:

(DIN ISO 2592)

Not determinable.

Flammability:

not applicable

*Information on: 1,1-dichloro-1-fluoroethane (R 141 b)**Lower explosion limit: 5.6 %(V)**Information on: 1,1-dichloro-1-fluoroethane (R 141 b)**Upper explosion limit: 17.7 %(V)*

Ignition temperature: > 250 °C

Vapour pressure: < 600 mbar

(20 °C)

Density:

1.148 g/cm³

(20 °C)

Solubility in water: partly soluble

Partitioning coefficient n-octanol/water (log Kow):

not applicable

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Other information

Miscibility with water:

partly miscible

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity**Reactivity**

Corrosion to metals: No corrosive effect on metal.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Temperature: < 0 °C

Incompatible materials

Substances to avoid:

acids, oxidizing agents, isocyanates

Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

Information on: tris(2-chloro-1-methylethyl)phosphate

Experimental/calculated data:

LD50 rat (oral): 630 mg/kg (Guideline 92/69/EEC, B.1)

Information on: Diethylene glycol

Experimental/calculated data:

LD (human) (oral): approx. 1,000 mg/kg (other)

Irritation

Assessment of irritating effects:

May cause severe damage to the eyes. Skin contact causes irritation.

Information on: 2-dimethylaminoethanol

Experimental/calculated data:

Skin corrosion/irritation rabbit: Corrosive. (OECD Guideline 404)

Skin corrosion/irritation rabbit: Corrosive. (OECD Guideline 404)

Information on: Ethylenediamine, propoxylated

Experimental/calculated data:

Serious eye damage/irritation rabbit: Irritant.

Respiratory/Skin sensitization

Assessment of sensitization:

The chemical structure does not suggest a sensitizing effect.

Information on: tris(2-chloro-1-methylethyl)phosphate

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity:

The chemical structure does not suggest such an effect.

Carcinogenicity

Assessment of carcinogenicity:

The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest such an effect.

Developmental toxicity

Assessment of teratogenicity:

The chemical structure does not suggest such an effect.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated dermal uptake of the substance did not cause substance-related effects. Repeated inhalative uptake of the substance did not cause substance-related effects. Repeated oral uptake of the substance did not cause substance-related effects.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Information on: tris(2-chloro-1-methylethyl)phosphate

Toxicity to fish:

LC50 (96 h) 30 mg/l, Poecilia reticulata (OECD 203; ISO 7346; 84/449/EEC, C.1, static)

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LC50 (96 h) 98 mg/l, Pimephales promelas (static)

Information on: 1,1-dichloro-1-fluoroethane (R 141 b)

Toxicity to fish:

LC50 (96 h) 126 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 92/69/EEC, C.1, static)

The product is highly volatile. Tested in a closed test system.

Information on: tris(2-chloro-1-methylethyl)phosphate

Aquatic invertebrates:

EC50 (48 h) 131 mg/l, Daphnia magna (DIN 38412 Part 11)

Information on: 1,1-dichloro-1-fluoroethane (R 141 b)

Aquatic invertebrates:

EC50 (48 h) 31.2 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Nominal concentration. The product is highly volatile. Tested in a closed test system.

Information on: tris(2-chloro-1-methylethyl)phosphate

Aquatic plants:

No observed effect concentration (72 h) 13 mg/l (biomass), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

Information on: 1,1-dichloro-1-fluoroethane (R 141 b)

Aquatic plants:

No observed effect concentration (72 h) > 44 mg/l (growth rate), Ankistrodesmus bibraianus (OECD guideline 221, static)

The product is highly volatile. Tested in a closed test system.

Information on: tris(2-chloro-1-methylethyl)phosphate

Microorganisms/Effect on activated sludge:

EC50 (30 min) 295 mg/l, Photobacterium phosphoreum (aquatic)

EC50 (3 h) 784 mg/l, activated sludge (aquatic)

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Poorly biodegradable.

Elimination information:

Poorly biodegradable.

Bioaccumulative potential

Assessment bioaccumulation potential:

Does not significantly accumulate in organisms.

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

Adsorption to solid soil phase is not expected.

Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria..

Information on: dibutyltin dilaurate

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): potential PBT substance.

Information on: 2-dimethylaminoethanol

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (persistent/bioaccumulative/toxic) or vPvB (very persistent/very bioaccumulative).. Self classification

Information on: Diethylene glycol

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling PBT

(persistent/bioaccumulative/toxic) criteria.. Self classification

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling vPvB (very persistent/very bioaccumulative) criteria.. Self classification

Information on: 1,1-dichloro-1-fluoroethane (R 141 b)

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria..

Information on: N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria..

Information on: tris(2-chloro-1-methylethyl)phosphate

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria..

Information on: Ethylenediamine, propoxylated

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria..

Information on: 2,2-Dimethylpropan-1-ol, tribromo derivative

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria..

Other adverse effects

The product contains a substance / substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

Additional information

Adsorbable organically-bound halogen (AOX):

The product contains according to the formulation, organically bound halogen. It can increase the AOX-value in the water purification plants overflow or if it reaches waters.

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Avoid release into the atmosphere. The product has not been tested. The statement has been derived from the properties of the individual components.

13. Disposal Considerations

Waste treatment methods

Incinerate in suitable incineration plant, observing local authority regulations.

Waste key:

07 02 07⁰¹ halogenated still bottoms and reaction residues

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

Sea transport

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IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines. Exposure scenarios for the mixture can not be provided at the moment because exposure scenarios are not yet available for all relevant substances due to registration timelines. For advice on essential measures see sections 7 and 8 of this safety data sheet.

16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

T	Toxic.
N	Dangerous for the environment.
C	Corrosive.
Xn	Harmful.
Xi	Irritant.
21/22	Harmful in contact with skin and if swallowed.
36/38	Irritating to eyes and skin.
48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
60	May impair fertility.
61	May cause harm to the unborn child.
68	Also possible risk of irreversible effects.
10	Flammable.
34	Causes burns.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
22	Harmful if swallowed.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
59	Dangerous for the ozone layer.
23/24	Toxic by inhalation and in contact with skin.
36	Irritating to eyes.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.

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H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H412	Harmful to aquatic life with long lasting effects.
EUH059	Hazardous to the ozone layer.
H330	Fatal if inhaled.
H311	Toxic in contact with skin.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.