

(GB)

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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 07.03.2017 / 0009  
 Replacing version dated / version: 16.12.2016 / 0008  
 Valid from: 07.03.2017  
 PDF print date: 29.03.2017  
 COSMO EP-205.120

(COSMOFEN AL 1630 Härter)

## 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

**COSMO EP-205.120**

**(COSMOFEN AL 1630 Härter)**

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

##### Relevant identified uses of the substance or mixture:

Adhesive  
 Sector of use [SU]:  
 SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

##### Uses advised against:

No information available at present.

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

(GB)  
 Weiss Chemie + Technik GmbH & Co.KG, Hansastrasse 2, 35708 Haiger, Germany  
 Phone: +49(0)2773/815-0, Fax: ---  
 msds@weiss-chemie.de, www.weiss-chemie.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 (WIC)

### 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
Skin Corr.	1B	H314-Causes severe skin burns and eye damage.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Repr.	2	H361f-Suspected of damaging fertility.
Aquatic	3	H412-Harmful to aquatic life with long lasting effects.
Chronic		

#### 2.2 Label elements

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



**Danger**

H314-Causes severe skin burns and eye damage. H317-May cause an allergic skin reaction.  
 H361f-Suspected of damaging fertility. H412-Harmful to aquatic life with long lasting effects.

P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing and eye protection / face protection.  
 P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

p-tert.-butylphenol  
 m-phenylenebis(methylamine)  
 Trimethylhexamethylenediamine  
 3-Aminomethyl-3,5,5-trimethylcyclohexylamine  
 Amines, polyethylenepoly-, triethylenetetramine fraction  
 Phenol, methylstyrenated

#### 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

#### 3.1 Substance

n.a.

#### 3.2 Mixture

Phenol, methylstyrenated	
Registration number (REACH)	01-2119555274-38-XXXX
Index	---
EINECS, ELINCS, NLP	270-966-8
CAS	68512-30-1
content %	5-10
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412

3-Aminomethyl-3,5,5-trimethylcyclohexylamine	
Registration number (REACH)	01-2119514687-32-XXXX
Index	612-067-00-9
EINECS, ELINCS, NLP	220-666-8
CAS	2855-13-2
content %	1-10
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H312 Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412

p-tert.-butylphenol	
Registration number (REACH)	---
Index	604-090-00-8
EINECS, ELINCS, NLP	202-679-0
CAS	98-84-4
content %	3-<5
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Repr. 2, H361f Aquatic Chronic 2, H411

Trimethylhexamethylenediamine	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	247-134-8
CAS	25620-58-0
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Benzyl alcohol	
Registration number (REACH)	01-2119492630-38-XXXX
Index	603-057-00-5
EINECS, ELINCS, NLP	202-859-9
CAS	100-51-6
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Eye Irrit. 2, H319 Acute Tox. 4, H332

m-phenylenebis(methylamine)	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	216-032-5
CAS	1477-55-0
content %	1-3
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Sens. 1, H317 Acute Tox. 3, H331 Aquatic Chronic 3, H412

Amines, polyethylenepoly-, triethylenetetramine fraction	
Registration number (REACH)	01-2119487919-13-XXXX
Index	---
EINECS, ELINCS, NLP	292-588-2
CAS	90640-67-8
content %	<1,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412

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 3.1/3.2 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

Never pour anything into the mouth of an unconscious person!  
 Medical supervision necessary due to possibility of delayed reaction.

##### Inhalation

Remove person from danger area.  
 Supply person with fresh air and consult doctor according to symptoms.  
 If the person is unconscious, place in a stable side position and consult a doctor.

##### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.  
 Cauterizations not treated lead to wounds difficult to heal.

##### Eye contact

Remove contact lenses.  
 Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.  
 Protect uninjured eye.  
 Follow-up examination by an ophthalmologist

##### 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.  
 In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.  
 The following may occur:

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Corrosive burns on skin as well as mucous membrane possible.  
 Necrosis  
 Risk of serious damage to eyes.  
 Corneal damage.  
 Danger of blindness  
 Ingestion:  
 Pain in the mouth and throat  
 stomach pain  
 Oesophageal perforation  
 Gastric perforation

**4.3 Indication of any immediate medical attention and special treatment needed**  
 n.c.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Water jet spray/foam/CO2/dry extinguisher

**Unsuitable extinguishing media**

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon  
 Oxides of nitrogen  
 Toxic gases

**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.

Dispose of contaminated extinction water according to official regulations.

**SECTION 6: Accidental release measures**

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

Keep non-essential personnel away.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

**6.2 Environmental precautions**

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

**6.3 Methods and material for containment and cleaning up**

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Neutralising is possible (only from a specialist).

**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.

Keep away from sources of ignition - Do not smoke.

Avoid contact with eyes or skin.

Handle and open container with care.

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

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

**7.1.2 Notes on general hygiene measures at the workplace**

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

**7.2 Conditions for safe storage, including any incompatibilities**

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Under all circumstances prevent penetration into the soil.

Do not store with acids.

Store cool.

Store in a dry place.

Unsuitable container:

Aluminium

**7.3 Specific end use(s)**

Adhesive

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

**8.1 Control parameters**

(GB) Chemical Name	Calcium carbonate	Content %
WEL-TWA: 4 mg/m3 (respirable dust), 10 mg/m3 (total inhalable dust)	WEL-STEL: ---	---
Monitoring procedures:	---	---
BMGV: ---	Other information: ---	

(GB) WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | 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.

m-phenylenebis(methylamine)						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - soil		PNEC	0,596	mg/kg dry weight	
	Environment - marine		PNEC	0,0632	mg/l	
	Environment - sediment, freshwater		PNEC	4,83	mg/kg dry weight	
	Environment - freshwater		PNEC	0,632	mg/l	
Consumer	Human - dermal	Short term, systemic effects	DNEL	13,3	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,66	mg/m3	
Consumer	Human - oral	Short term	DNEL	13,3	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,66	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	23,12	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,89	mg/m3	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	26,6	mg/kg bw/d	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,33	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	93,6	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	11,7	mg/m3	

3-Aminomethyl-3,5,5-trimethylcyclohexylamine						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,06	mg/l	
	Environment - marine		PNEC	0,006	mg/l	
	Environment - sewage treatment plant		PNEC	3,18	mg/l	
	Environment - soil		PNEC	1,121	mg/kg	
	Environment - sporadic (intermittent) release		PNEC	0,23	mg/l	
	Environment - sediment, freshwater		PNEC	5,784	mg/kg	
	Environment - sediment, marine		PNEC	0,578	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,523	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	20,1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	20,1	mg/m3	

Phenol, methylstyrenated						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	14	µg/l	
	Environment - water, sporadic (intermittent) release		PNEC	140	µg/l	
	Environment - marine		PNEC	1,4	µg/l	
	Environment - sediment, freshwater		PNEC	52,9	mg/kg	
	Environment - sediment, marine		PNEC	5,3	mg/kg	
	Environment - soil		PNEC	10,5	mg/kg	
	Environment - sewage treatment plant		PNEC	2,4	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	4	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	8	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	28	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	16,4	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	57	mg/m3	

Benzyl alcohol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - soil		PNEC	0,456	mg/kg	
	Environment - sewage treatment plant		PNEC	39	mg/l	
	Environment - sediment		PNEC	5,27	mg/kg	
	Environment - sediment, marine		PNEC	0,527	mg/kg	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - periodic release		PNEC	2,3	mg/l	
	Environment - freshwater		PNEC	1	mg/l	

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Consumer	Human - dermal	Short term, systemic effects	DNEL	28,5	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	5,7	mg/kg bw/d	
Consumer	Human - oral	Short term, systemic effects	DNEL	25	mg/kg bw/d	
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/d	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	95,5	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	19,1	mg/m3	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	47	mg/kg bw/d	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	9,5	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	450	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	90	mg/m3	

**Amines, polyethylenepoly-, triethylenetetramine fraction**

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,19	mg/l	
	Environment - marine		PNEC	0,038	mg/l	
	Environment - sediment, freshwater		PNEC	95,9	mg/kg dry weight	
	Environment - sediment, marine		PNEC	19,2	mg/kg dry weight	
	Environment - soil		PNEC	19,1	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	4,25	mg/l	
	Environment - sporadic (intermittent) release		PNEC	0,2	mg/l	
Consumer	Human - dermal	Short term, systemic effects	DNEL	8	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	160	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg bw/day	
Consumer	Human - dermal	Long term, local effects	DNEL	1	mg/cm <sup>2</sup>	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,25	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,29	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,41	mg/kg bw/day	
Consumer	Human - dermal	Long term, local effects	DNEL	0,43	mg/cm <sup>2</sup>	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	538	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,57	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,028	mg/cm <sup>2</sup>	

**Calcium carbonate**

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - sewage treatment plant		PNEC	100	mg/l	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,06	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	4,26	mg/m3	

**8.2 Exposure controls**

**8.2.1 Appropriate engineering controls**

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. 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).

If applicable

Face protection (EN 166)

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

Recommended

Protective nitrile gloves (EN 374)

Protective gloves in butyl rubber (EN 374).

Minimum layer thickness in mm:

>= 0,35

Permeation time (penetration time) in minutes:

>= 120

The breakthrough times determined in accordance with EN 374 Part 3 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:

If OES or MEL is exceeded.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

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

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

Selection of materials derived from glove manufacturer's indications.

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

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

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

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

**8.2.3 Environmental exposure controls**

No information available at present.

**SECTION 9: Physical and chemical properties**

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

Physical state: Pastelike, Liquid  
 Colour: Grey  
 Odour: Characteristic  
 Odour threshold: Not determined  
 pH-value: n.a.  
 Melting point/freezing point: Not determined  
 Initial boiling point and boiling range: Not determined  
 Flash point: Not determined  
 Evaporation rate: n.a.  
 Flammability (solid, gas): n.a.  
 Lower explosive limit: Not determined  
 Upper explosive limit: Not determined  
 Vapour pressure: Not determined  
 Vapour density (air = 1): Not determined  
 Density: ~1,54 g/cm<sup>3</sup> (20°C)  
 Bulk density: n.a.  
 Solubility(ies): Not determined  
 Water solubility: Insoluble  
 Partition coefficient (n-octanol/water): Not determined  
 Auto-ignition temperature: Not determined  
 Decomposition temperature: Not determined  
 Viscosity: 23000-31000 mPas  
 Explosive properties: Product is not explosive.  
 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**

Product corrodes metals.

**10.2 Chemical stability**

Stable with proper storage and handling.

**10.3 Possibility of hazardous reactions**

No dangerous reactions are known.

**10.4 Conditions to avoid**

Strong heat

**10.5 Incompatible materials**

Avoid contact with strong acids.

Avoid contact with certain metals e.g. aluminium.

Avoid contact with strong oxidizing agents.

**10.6 Hazardous decomposition products**

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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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value, Vapours
Skin corrosion/irritation:						n.d.a.

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Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Phenol, methylstyrenated						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	> 2000	mg/k g	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	> 2000	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>4,92	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Maximum achievable concentration, Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Slightly irritant
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Aspiration hazard:						No

3-Aminomethyl-3,5,5-trimethylcyclohexylamine						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	1030	mg/k g	Rat		
Acute toxicity, by oral route:	LD50	1030	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	1840	mg/k g	Rabbit		
Acute toxicity, by inhalation:	LC50	>5,01	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit		Corrosive
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Corrosive
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Reproductive toxicity:	NOAE L	>250	mg/k g	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	
Symptoms:						respiratory distress, burning of the membranes of the nose and throat, coughing, mucous membrane irritation
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	60	mg/k g		OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Target organ(s): kidneys

p-tert-butylphenol						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Irritant, Skin Irrit. 2

Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Risk of serious damage to eyes., Eye Dam. 1
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Symptoms:						vomiting, headaches, stomach pain, fatigue, mucous membrane irritation, dizziness, nausea

Trimethylhexamethylenediamine						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	910	mg/k g	Rat		

Benzyl alcohol						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	1620	mg/k g	Rat		
Acute toxicity, by oral route:	LD50	1230	mg/k g	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rabbit		
Acute toxicity, by inhalation:	LC50	> 4,178	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Irritant, Classification according to Regulation (EC) 1272/2008 (CLP)
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Germ cell mutagenicity:					OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Reproductive toxicity:	NOAE C	1072	mg/m 3	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAE C	1072	mg/k g	Rat		
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAE L	200	mg/k g	Mouse		
Symptoms:						headaches, fatigue, dizziness, nausea and vomiting.

m-phenylenebis(methylamine)						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000- <2000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rat		
Acute toxicity, by inhalation:	LC50	2,4	mg/l/ 1h	Rat		Vapours
Skin corrosion/irritation:						Corrosive
Germ cell mutagenicity:						Negative

Amines, polyethylenepoly-, triethylenetetramine fraction						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	1716	mg/k g	Rat		
Acute toxicity, by dermal route:	LD50	1465	mg/k g	Rabbit		
Skin corrosion/irritation:				Rabbit		Corrosive
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Germ cell mutagenicity:						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	LOAE L	50	mg/k g	Rat		
Symptoms:						abdominal pain, blisters, eyes, reddened, watering eyes

Calcium carbonate						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	

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Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:						No indications of such an effect.
Reproductive toxicity:	NOEL	1000	mg/kg bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development Tox. Screening Test)	
Specific target organ toxicity - single exposure (STOT-SE):						No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE):						No indications of such an effect.
Aspiration hazard:						No
Symptoms:						No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOEL	1000	mg/kg bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development Tox. Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOEC	0,212	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	

### SECTION 12: Ecological information

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

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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment:							n.d.a.
12.6. Other adverse effects:							n.d.a.

Phenol, methylstyrenated

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	25,8	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	

12.1. Toxicity to daphnia:	EL50	48h	14	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EL50	72h	178	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	4	%			Not readily biodegradable

3-Aminomethyl-3,5,5-trimethylcyclohexylamine

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	110	mg/l	Leuciscus idus	84/449/EEC C.1	
12.1. Toxicity to fish:	LC50	96h	110	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	23	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50	48h	42	mg/l	Daphnia magna	DIN 38412 T.11	
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	3	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	37	mg/l	Scenedesmus subspicatus	DIN 38412 T.9	
12.1. Toxicity to algae:	ErC50	72h	>50	mg/l	Scenedesmus subspicatus	88/302/EC	
12.2. Persistence and degradability:		28d	8	%		Regulation (EC) 440/2008 C.4-A (DETERMINATION OF "READY" BIODEGRADABILITY - DOC DIE-AWAY TEST)	Not readily biodegradable
12.3. Bioaccumulative potential:							Not to be expected
12.5. Results of PBT and vPvB assessment:							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	18h	1120	mg/l	Pseudomonas putida		
Toxicity to bacteria:	EC10	18h	1120	mg/l	Pseudomonas putida	DIN 38412 T.8	
Other information:	AOX		0	%			

p-tert-butylphenol

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	4,8	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/N OEL	48h	3,2	mg/l	Daphnia magna STRAUS		
12.1. Toxicity to algae:	EC50	72h	14	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	

Trimethylhexamethylenediamine

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1000	mg/l	Brachydanio rerio		
12.1. Toxicity to daphnia:	EC50	24h	31,5	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	29,5	mg/l	Scenedesmus subspicatus		
12.2. Persistence and degradability:							Not readily biodegradable
Toxicity to bacteria:	IC50	3h	100	mg/l			

Benzyl alcohol

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	460	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	48h	230	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

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12.1. Toxicity to daphnia:	NOEC/N OEL	21d	51	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	770	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/N OEL	72h	310	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		21d	95-97	%		OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	Readily biodegradable
12.2. Persistence and degradability:		28d	92-96	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		1,1				A notable biological accumulation potential is not to be expected (LogPow < 1-3).
Toxicity to bacteria:	EC10	16h	658	mg/l	Pseudomonas putida		

**m-phenylenebis(methylamine)**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	16	mg/l			
12.1. Toxicity to algae:	IC50	72h	12	mg/l			

**Amines, polyethylenepoly-, triethylenetetramine fraction**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	EC50	72h	330	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	EC50	48h	31,1	mg/l	Daphnia magna	Regulation (EC) 440/2008 C.2 (DAPHNIA SP. ACUTE IMMOBILISATION TEST)	
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	1,9	mg/l			
12.1. Toxicity to algae:	EC50	72h	2,2	mg/l			
12.1. Toxicity to algae:	EC50	72h	20	mg/l			
12.1. Toxicity to algae:	NOEC/N OEL	72h	1,34	mg/l			
12.2. Persistence and degradability:		28d	<60	%			
12.3. Bioaccumulative potential:	BCF		99				
12.3. Bioaccumulative potential:	Log Pow		-2,65				Bioaccumulation is unlikely (LogPow < 1).
12.4. Mobility in soil:	Koc		4000				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	30min	800	mg/l			
Toxicity to bacteria:	NOEC/N OEL	30min	42,5	mg/l			

**Calcium carbonate**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h			Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	No observation with saturated solution of test material.

12.1. Toxicity to daphnia:	EC50	48h			Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	No observation with saturated solution of test material.
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/N OEL	72h	14	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Not relevant for inorganic substances
12.3. Bioaccumulative potential:							Not to be expected
12.4. Mobility in soil:							n.a.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	NOEC/N OEL	3h	1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	EC50	14d	>1000	mg/kg dw	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Lycopersicon esculentum
Other organisms:	EC50	28d	>1000	mg/kg dw		OECD 216 (Soil Microorganisms - Nitrogen Transformation Test)	
Other organisms:	NOEC/N OEL	14d	1000	mg/kg dw	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other organisms:	NOEC/N OEL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	NOEC/N OEL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	NOEC/N OEL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	NOEC/N OEL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Lycopersicon esculentum
Other organisms:	NOEC/N OEL	28d	1000	mg/kg dw		OECD 216 (Soil Microorganisms - Nitrogen Transformation Test)	
Water solubility:			0,0166	g/l		OECD 105 (Water Solubility)	
Water solubility:			0,0166	g/l		OECD 105 (Water Solubility)	20°C

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 PDF print date: 29.03.2017  
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### 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  
 20 01 27 paint, inks, adhesives and resins containing hazardous substances

Recommendation:  
 Sewage disposal shall be discouraged.  
 Pay attention to local and national official regulations.  
 E.g. suitable incineration plant.  
 E.g. dispose at suitable refuse site.

##### For contaminated packing material

Pay attention to local and national official regulations.  
 Empty container completely.  
 Uncontaminated packaging can be recycled.  
 Dispose of packaging that cannot be cleaned in the same manner as the substance.

### SECTION 14: Transport information

#### General statements

14.1. UN number: 2735

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:  
 UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), ISOPHORONEDIAMINE)  
 14.3. Transport hazard class(es): 8  
 14.4. Packing group: III  
 Classification code: C7  
 LQ: 5 L  
 14.5. Environmental hazards: Not applicable  
 Tunnel restriction code: E

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name:  
 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), ISOPHORONEDIAMINE)  
 14.3. Transport hazard class(es): 8  
 14.4. Packing group: III  
 EmS: F-A, S-B  
 Marine Pollutant: n.a.  
 14.5. Environmental hazards: Not applicable

#### Transport by air (IATA)

14.2. UN proper shipping name:  
 Polyamines, liquid, corrosive, n.o.s. (M-PHENYLENEBIS(METHYLAMINE), ISOPHORONEDIAMINE)  
 14.3. Transport hazard class(es): 8  
 14.4. Packing group: III  
 14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.  
 All persons involved in transporting must observe safety regulations.  
 Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable.  
 Minimum amount regulations have not been taken into account.  
 Danger code and packing code on request.  
 Comply with special provisions.

### SECTION 15: Regulatory information

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

Observe restrictions:  
 Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 125,3 g/l  
 Directive 2010/75/EU (VOC): 8,3 %

Observe youth employment law (German regulation).  
 Observe law on protection of expectant mothers (German regulation).

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

### SECTION 16: Other information

Revised sections: 2,16  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.  
 Employee training in handling dangerous goods 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) No. 1272/2008 (CLP)	Evaluation method used
Skin Corr. 1B, H314	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Repr. 2, H361f	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

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).  
 H314 Causes severe skin burns and eye damage.  
 H361f Suspected of damaging fertility.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H331 Toxic if inhaled.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

Skin Corr. — Skin corrosion  
 Skin Sens. — Skin sensitization  
 Repr. — Reproductive toxicity  
 Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Skin Irrit. — Skin irritation  
 Acute Tox. — Acute toxicity - dermal  
 Acute Tox. — Acute toxicity - oral  
 Eye Dam. — Serious eye damage  
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation  
 Eye Irrit. — Eye irritation  
 Acute Tox. — Acute toxicity - inhalation

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

AC Article Categories  
 acc., acc. to according, according to  
 ACGIH American Conference of Governmental Industrial Hygienists  
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 AOEL Acceptable Operator Exposure Level  
 AOX Adsorbable organic halogen compounds  
 approx. approximately  
 Art., Art. no. Article number  
 ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)  
 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)  
 BCF Bioconcentration factor  
 BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)  
 BHT Butylhydroxytoluol (= 2,6-Di-*t*-butyl-4-methyl-phenol)  
 BMGV Biological monitoring guidance value (EH40, UK)  
 BOD Biochemical oxygen demand  
 BSEF Bromine Science and Environmental Forum  
 bw body weight  
 CAS Chemical Abstracts Service  
 CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids  
 CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques  
 CIPAC Collaborative International Pesticides Analytical Council  
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 COD Chemical oxygen demand  
 CTFA Cosmetic, Toiletary, and Fragrance Association  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 DOC Dissolved organic carbon  
 DT50 Dwell Time - 50% reduction of start concentration  
 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EC European Community  
 ECHA European Chemicals Agency  
 EEA European Economic Area  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 ERC Environmental Release Categories  
 ES Exposure scenario  
 etc. et cetera  
 EU European Union  
 EWC European Waste Catalogue  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
 HGWP Halocarbon Global Warming Potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC Intermediate Bulk Container  
 IBC (Code) International Bulk Chemical (Code)  
 IC Inhibitory concentration  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 LC lethal concentration  
 LC50 lethal concentration 50 percent kill  
 LCLo lowest published lethal concentration  
 LD Lethal Dose of a chemical  
 LD50 Lethal Dose, 50% kill  
 LDLo Lethal Dose Low  
 LOAEL Lowest Observed Adverse Effect Level  
 LOEC Lowest Observed Effect Concentration  
 LOEL Lowest Observed Effect Level  
 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  
 NIOSH National Institute of Occupational Safety and Health (United States of America)  
 NOAEC No Observed Adverse Effective Concentration  
 NOAEL No Observed Adverse Effect Level  
 NOEC No Observed Effect Concentration

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Replacing version dated / version: 16.12.2016 / 0008

Valid from: 07.03.2017

PDF print date: 29.03.2017

COSMO EP-205.120

(COSMOFEN AL 1630 Härter)

NOEL	No Observed Effect Level
ODP	Ozone Depletion Potential
OECD	Organisation for Economic Co-operation and Development
org.	organic
PAH	polycyclic aromatic hydrocarbon
PBT	persistent, bioaccumulative and toxic
PC	Chemical product category
PE	Polyethylene
PNEC	Predicted No Effect Concentration
POCP	Photochemical ozone creation potential
ppm	parts per million
PROC	Process category
PTFE	Polytetrafluorethylene
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)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure Activity Relationship
SU	Sector of use
SVHC	Substances of Very High Concern
Tel.	Telephone
ThOD	Theoretical oxygen demand
TOC	Total organic carbon
TRGS	Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
UN RTDG	United Nations Recommendations on the Transport of Dangerous Goods
VbF	Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
VOC	Volatile organic compounds
vPvB	very persistent and very bioaccumulative
WEL-TWA, WEL-STEL	WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).
WHO	World Health Organization
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.

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