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**SAFETY DATA SHEET***according to Regulation (EC) No. 1907/2006***0903480001 - WIT-PE 500 - 385 ML (comp. B)**

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Version 2.1	Revision Date 20.02.2015	Print Date 22.02.2015	DE / EN
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Commercial Product Name	:	WIT-PE 500 - 385 ML (comp. B)
Product code	:	0903480001
SDS-Identcode	:	10034385

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

Use of the Substance/Mixture	:	Construction material, Hardener
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**1.3 Details of the supplier of the safety data sheet**

Company	:	Adolf Wuerth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau Germany
Telephone	:	+49 7940 15 0
Telefax	:	+49 7940 15 10 00
Responsible/issuing person	:	E-mail address: prodsafe@wuerth.com

**1.4 Emergency telephone number**

Giftnotrufzentrale Berlin	:	+49 30 30686 790
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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

**Classification (67/548/EEC, 1999/45/EC)**

Corrosive	R34: Causes burns.
Harmful	R21/22: Harmful in contact with skin and if swallowed.
Mutagenic Category 3	R68: Possible risk of irreversible effects.
Sensitising	R43: May cause sensitisation by skin contact.

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Dangerous for the environment

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms



Signal word

: Danger

Hazard statements

: H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

: <b>Prevention:</b>	
P260	Do not breathe mist or vapours.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
<b>Response:</b>	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

- 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)
- m-phenylenebis(methylamine)
- Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine
- phenol
- 2,2'-iminodiethylamine

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- bis[(dimethylamino)methyl]phenol

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**
**Hazardous components**

Chemical Name	CAS-No.	Classification (67/548/EEC)	Classification (1272/2008/EC)	Concentration [%]
	EC-No.			
	Registration number			
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	C; R34 R43 R52-R53 Xn; R21/22	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 25 - < 35
	220-666-8			
benzyl alcohol	100-51-6	Xn; R20/22	Acute Tox. 4; H302 Acute Tox. 4; H332	>= 20 - < 25
	202-859-9			
Formaldehyde, oligomeric reaction products with phenol and m- phenylenebis(methylamin e)	57214-10-5	C; R34 R43 R52/53	Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 20 - < 25
	500-137-0			
Formaldehyde, oligomeric reaction products with 4,4'- isopropylidenediphenol and diethylenetriamine	77138-45-5	C; R34 R43	Skin Corr. 1B; H314 Skin Sens. 1; H317	>= 15 - < 20
	500-263-6			
m- phenylenebis(methylamin e)	1477-55-0	Xn; R20/22 C; R34 R43 R52/53	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 15 - < 20
	216-032-5			
	01- 2119480150- 50			

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2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	Xn; R22 C; R34 R52/53	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 3; H412	>= 7 - < 10
	202-013-9			
	01-2119560597-27			
phenol	108-95-2	C; R34 Mut.Cat.3; R68 T; R23/24/25 Xn; R48/20/21/22	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Muta. 2; H341 STOT RE 2; H373	>= 7 - < 10
	203-632-7			
	01-2119471329-32			
2,2'-iminodiethylamine	111-40-0	Xn; R21/22 T+; R26 C; R34 Xi; R37 R43	Acute Tox. 4; H302 Acute Tox. 2; H330 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 STOT SE 3; H335	>= 5 - < 7
	203-865-4			
	01-2119473793-27			
bis[(dimethylamino)methyl]phenol	71074-89-0	C; R34 R43	Skin Corr. 1B; H314 Skin Sens. 1; H317	>= 3 - < 5
	275-162-0			

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- If inhaled : If breathed in, move person into fresh air. Call a physician or poison control centre immediately. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- In case of skin contact : Call a physician immediately. Do NOT use solvents or thinners. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Immediately flush skin with large amounts of water.

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In case of eye contact : Protect unharmed eye. Small amounts splashed into eyes can cause irreversible tissue damage and blindness. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed : If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. If a person vomits when lying on his back, place him in the recovery position.

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

No data available

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

No data available

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Foam, Dry powder, Water spray jet, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

**5.3 Advice for firefighters**

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

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas. Avoid inhalation of vapour or mist.

**6.2 Environmental precautions**

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly.

**6.4 Reference to other sections**

see chapter: 7, 8, 11, 12 and 13

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8. Limit the stocks at work place. Use with local exhaust ventilation. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Handle with care. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Dust explosion class : Not applicable

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

Requirements for storage areas and containers : Store in a place accessible by authorized persons only. Keep locked up or in an area accessible only to qualified or authorised persons. Store in original container. Keep containers tightly closed in a cool, well-ventilated place.

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- Advice on common storage : Incompatible with strong acids and oxidizing agents.  
 Keep away from food, drink and animal feedingstuffs.  
 To be observed: TRGS 510
- Storage temperature : 5 - 25 °C
- Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**

Components	CAS-No.	Control parameters	Basis	Update
phenol	108-95-2	AGW (Vapour and aerosols): 8 mg/m <sup>3</sup> , 2 ppm EU, 11, H,	DE TRGS 900	2013-09-19
Siliciumdioxide	112945-52-5	AGW (Inhalable fraction): 4 mg/m <sup>3</sup> , DFG, 2, Y,	DE TRGS 900	2013-09-19
phenol	108-95-2	TWA: 8 mg/m <sup>3</sup> , 2 ppm skin, STEL: 16 mg/m <sup>3</sup> , 4 ppm skin,	2009/161/EU	2009-12-19

Other information on limit values: see chapter 16

**Biological occupational exposure limits - TRGS903**

Substance name	CAS-No.	Control parameters	Sampling time	Update
phenol	108-95-2	phenol: 120 mg/g Creatinine (Urine)	b	2013-09-19

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**8.2 Exposure controls****Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms.

**Personal protective equipment**

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.  
Respirator with filter type A  
Type: Filter type P2

Hand protection

Material : Nitrile rubber  
Glove thickness : > 0,7 mm  
Break through time: : > 60 min  
Directive : DIN EN 374

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Wear suitable protective clothing.  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
General industrial hygiene practice.  
Avoid breathing vapours, mist or gas.  
Avoid contact with skin, eyes and clothing.  
When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Follow the skin protection plan.  
Take off all contaminated clothing immediately.  
Wash contaminated clothing before re-use.

**Environmental exposure controls**



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General advice : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance	: paste
Colour	: black
Odour	: amine-like
Odour Threshold	: No data available
Flash point	: Not applicable
Ignition temperature	: No data available
Thermal decomposition	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Explosive properties	: No data available
Flammability	: No data available
Oxidizing properties	: No data available
Auto-ignition temperature	: No data available
Burning number	: No data available
Molecular weight	: No data available
pH	: Not applicable
Vapour pressure	: No data available
Density	: 1,06 g/cm <sup>3</sup> at 20 °C
Bulk density	: Not applicable
Water solubility	: partly miscible
Partition coefficient: n-octanol/water	: No data available
Solubility in other solvents	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Impact sensitivity	: No data available
Relative vapour density	: No data available
Surface tension	: No data available
Evaporation rate	: No data available

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Minimum ignition energy : No data available  
Acid number : No data available  
Refraction index : No data available  
Miscibility in water : No data available  
Solvent separation test : No data available

**9.2 Other information**

None known.

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available

**10.2 Chemical stability**

The product is chemically stable.

**10.3 Possibility of hazardous reactions**

Stability : No decomposition if stored and applied as directed.

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Materials to avoid : Oxidizing agents, Strong acids

**10.6 Hazardous decomposition products**

Hazardous decomposition products : Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>), Pyrolysis products from aromatic and aliphatic hydrocarbons

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**Acute oral toxicity:

3-aminomethyl-3,5,5-trimethylcyclohexylamine : LD50 Rat, male: 1.030 mg/kg  
Method: OECD Test Guideline 401

benzyl alcohol : LD50 Rat, male: ca. 1.620 mg/kg

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Acute toxicity estimate : 500 mg/kg  
Method: Expert judgement

Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) : LD50 Rat, female: > 2.000 mg/kg  
Method: OECD Test Guideline 425

m-phenylenebis(methylamine) : LD50 Rat, male and female: > 200 - < 2.000 mg/kg  
Method: OECD Test Guideline 401

2,4,6-tris(dimethylaminomethyl)phenol : Acute toxicity estimate : 500 mg/kg  
Method: Expert judgement

phenol : Acute toxicity estimate : 100 mg/kg  
Method: Expert judgement

2,2'-iminodiethylamine : LD50 Rat: 1.553 mg/kg

Acute inhalation toxicity:

benzyl alcohol : Acute toxicity estimate : 1,5 mg/l  
Test atmosphere: dust/mist  
Exposure time: 4 h  
Method: Expert judgement

m-phenylenebis(methylamine) : LC50 Rat, male and female: ca. 1,34 mg/l  
Test atmosphere: dust/mist  
Exposure time: 4 h  
Method: OECD Test Guideline 403

phenol : Acute toxicity estimate : 0,501 mg/l  
Test atmosphere: dust/mist  
Exposure time: 4 h  
Method: Expert judgement

2,2'-iminodiethylamine : LC0 Rat: 0,07 mg/l  
Test atmosphere: dust/mist  
Exposure time: 4 h  
Method: OECD Test Guideline 403

Acute dermal toxicity:

3-aminomethyl-3,5,5-trimethylcyclohexylamine : LD50 : > 1.000 - 2.000 mg/kg

Formaldehyde, oligomeric reac- : LD50 Rat, male and female: > 2.020 mg/kg

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tion products with phenol and m-phenylenebis(methylamine)

Method: OECD Test Guideline 402

m-phenylenebis(methylamine)

: LD50 Rat, male and female: &gt; 3.100 mg/kg

phenol

: LD50 Rat, female: 660 mg/kg  
Method: OECD Test Guideline 402

2,2'-iminodiethylamine

: LD50 Rabbit: 1.045 mg/kg

Acute toxicity (other routes of administration):

No data available

**Skin corrosion/irritation**

3-aminomethyl-3,5,5-trimethylcyclohexylamine

: Causes burns.

benzyl alcohol

: Species: Rabbit  
No skin irritation  
Method: OECD Test Guideline 404

Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)

: Species: Rabbit  
Causes burns.  
Method: OECD Test Guideline 404

Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine

: Causes burns.

m-phenylenebis(methylamine)

: Species: Rat  
Causes burns.

2,4,6-tris(dimethylaminomethyl)phenol

: Species: Rabbit  
Causes burns.  
Method: OECD Test Guideline 404

phenol

: Species: Rabbit  
Corrosive after 3 minutes to 1 hour of exposure

2,2'-iminodiethylamine

: Species: Rabbit  
Causes burns.

bis[(dimethylamino)methyl]phenol

: Corrosive after 3 minutes to 1 hour of exposure

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**Serious eye damage/eye irritation**

- 3-aminomethyl-3,5,5-trimethylcyclohexylamine : Corrosive
- Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) : Species: Rabbit  
Irreversible effects on the eye  
Method: OECD Test Guideline 405
- 2,4,6-tris(dimethylaminomethyl)phenol : Species: Rabbit  
Corrosive
- phenol : Species: Rabbit  
Blindness
- 2,2'-iminodiethylamine : Species: Rabbit  
Corrosive

**Respiratory or skin sensitisation**Sensitisation:

- 3-aminomethyl-3,5,5-trimethylcyclohexylamine : Result: Probability or evidence of skin sensitisation in humans
- Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) : Test Method: Local lymph node assay (LLNA)  
Species: Mouse  
Result: May cause sensitisation by skin contact.  
Method: OECD Test Guideline 429
- Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine : Classification: May cause sensitisation by skin contact.  
Result: May cause sensitisation by skin contact.
- m-phenylenebis(methylamine) : Test Method: Local lymph node assay (LLNA)  
Species: Mouse  
Result: May cause sensitisation by skin contact.  
Method: OECD Test Guideline 429
- 2,4,6-tris(dimethylaminomethyl)phenol : Species: Guinea pig  
Result: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406
- phenol : Result: Did not cause sensitisation on laboratory animals.
- 2,2'-iminodiethylamine : Species: Guinea pig  
Result: May cause sensitisation by skin contact.  
Method: OECD Test Guideline 406

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bis[(dimethylamino)methyl]phenol : Result: Probability or evidence of skin sensitisation in humans

**Germ cell mutagenicity**Genotoxicity in vitro:

3-aminomethyl-3,5,5-trimethylcyclohexylamine : Type: Ames test  
Test species: Salmonella typhimurium with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 471

Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) : Type: Ames test  
Test species: Salmonella typhimurium with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 471

m-phenylenebis(methylamine) : Type: in-vitro Mouse Lymphoma Assay with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 476

2,4,6-tris(dimethylaminomethyl)phenol : Type: Ames test  
Test species: Salmonella typhimurium with and without metabolic activation  
Result: negative  
Method: OECD Test Guideline 471

Genotoxicity in vivo:

3-aminomethyl-3,5,5-trimethylcyclohexylamine : Type: Micronucleus test  
Test species: Mouse  
Sex: male and female  
Application Route: Oral  
Result: negative  
Method: OECD Test Guideline 474

m-phenylenebis(methylamine) : Test species: Mouse  
Sex: male and female  
Result: negative  
Method: OECD Test Guideline 474

**Carcinogenicity**

Remarks  
phenol : Mutagenicity:

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In vitro tests showed mutagenic effects

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**STOT - single exposure**

2,2'-iminodiethylamine : May cause respiratory irritation.

**STOT - repeated exposure**

phenol : May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**Aspiration toxicity

No data available

**Neurological effects**

No data available

**Toxicology Assessment**Toxicology, Metabolism, Distribution

No data available

Acute effects

No data available

**Further information**

: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

: Inhalation is not regarded as possible exposure path.

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**SECTION 12: Ecological information****12.1 Toxicity**Toxicity to fish

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3-aminomethyl-3,5,5-trimethylcyclohexylamine	: LC50 (Leuciscus idus (Golden orfe)): 110 mg/l Exposure time: 96 h
benzyl alcohol	: (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	: LC50 (Oncorhynchus mykiss (rainbow trout)): ca. 25,9 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
m-phenylenebis(methylamine)	: LC50 (Oryzias latipes (Orange-red killifish)): 87,6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
2,4,6-tris(dimethylaminomethyl)phenol	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 180 - < 240 mg/l Exposure time: 96 h
phenol	: LC50 (Pimephales promelas (fathead minnow)): 24,9 mg/l Exposure time: 96 h
2,2'-iminodiethylamine	: LC50 (Poecilia reticulata (guppy)): 0,43 g/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

3-aminomethyl-3,5,5-trimethylcyclohexylamine	: NOEC (Daphnia magna (Water flea)): 8,3 mg/l Exposure time: 48 h Method: OECD Test Guideline 202  EC50 (Daphnia magna (Water flea)): 23 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
benzyl alcohol	: EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	: EC50 (Daphnia magna (Water flea)): ca. 29,8 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
m-phenylenebis(methylamine)	: EC50 (Daphnia magna (Water flea)): 15,2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
phenol	: EC50 (Ceriodaphnia dubia (water flea)): 3,1 mg/l Exposure time: 48 h



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2,2'-iminodiethylamine : EC50 (Daphnia magna (Water flea)): 16 mg/l  
Exposure time: 48 h

Toxicity to algae

3-aminomethyl-3,5,5-trimethylcyclohexylamine : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 37 mg/l  
Exposure time: 72 h

benzyl alcohol : EC50 (Pseudokirchneriella subcapitata (algae)): 770 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) : EC50 (Pseudokirchneriella subcapitata (green algae)): ca. 20,4 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

m-phenylenebis(methylamine) : EC50 (Selenastrum capricornutum (green algae)): 20,3 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

2,4,6-tris(dimethylaminomethyl)phenol : EC50 (Desmodesmus subspicatus (green algae)): 84 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

phenol : EC50 (Pseudokirchneriella subcapitata (green algae)): 61,1 mg/l  
Exposure time: 96 h

2,2'-iminodiethylamine : ErC50 (Pseudokirchneriella subcapitata (microalgae)): 1.164 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EbC50 (Pseudokirchneriella subcapitata (microalgae)): 187 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (microalgae)): 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to bacteria

3-aminomethyl-3,5,5-trimethylcyclohexylamine : EC10 (Pseudomonas putida): 1.120 mg/l  
Exposure time: 18 h

Formaldehyde, oligomeric reaction products with phenol and m- : EC50 (Bacteria): ca. 491,3 mg/l  
Exposure time: 3 h

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phenylenebis(methylamine) Method: OECD Test Guideline 209

m-phenylenebis(methylamine) : EC50 (Bacteria): > 1.000 mg/l  
Exposure time: 30 h  
Method: OECD Test Guideline 2092,4,6-  
tris(dimethylaminomethyl)phenol : NOEC (Bacteria): 2 mg/l  
Exposure time: 28 hphenol : IC50 (Bacteria): 21 mg/l  
Exposure time: 24 h2,2'-iminodiethylamine : EC50 (Bacteria): 32,7 mg/l  
Exposure time: 3 h  
Test Method: Respiration inhibition  
  
NOEC (Bacteria): 6 mg/l  
Exposure time: 3 h  
Test Method: Respiration inhibitionToxicity to fish (Chronic toxicity)2,2'-iminodiethylamine : NOEC: > 10 mg/l  
Exposure time: 28 d  
Species: FishToxicity to daphnia and other aquatic invertebrates (Chronic toxicity)3-aminomethyl-3,5,5-  
trimethylcyclohexylamine : NOEC: 3 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)benzyl alcohol : NOEC: 51 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211m-phenylenebis(methylamine) : NOEC: 4,7 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 2112,2'-iminodiethylamine : NOEC: 5,6 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)**12.2 Persistence and degradability**

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Biodegradability

3-aminomethyl-3,5,5-trimethylcyclohexylamine	: Result: Not readily biodegradable. Biodegradation: 8 % Exposure time: 28 d
benzyl alcohol	: Result: Readily biodegradable Biodegradation: 97 % Exposure time: 21 d
Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	: Result: Not readily biodegradable. Method: OECD Test Guideline 301D
m-phenylenebis(methylamine)	: Result: Not rapidly biodegradable Biodegradation: 49 % Exposure time: 28 d
2,4,6-tris(dimethylaminomethyl)phenol	: Result: Not readily biodegradable. Biodegradation: 4 % Exposure time: 28 d Method: OECD Test Guideline 301D
phenol	: Result: Biodegradable
2,2'-iminodiethylamine	: Result: Readily biodegradable

**12.3 Bioaccumulative potential**Bioaccumulation

phenol	: Species: Pimephales promelas (fathead minnow) Bioconcentration factor (BCF): 3,5 Remarks: Calculation
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**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Advice on disposal and packaging : Disposal:  
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of in a safe way. Do not dispose of together with household waste. Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):  
080409, waste adhesives and sealants containing organic solvents or other dangerous substances

Waste key (used product):  
080409, waste adhesives and sealants containing organic solvents or other dangerous substances

Disposal of uncleaned packaging : Waste key (uncleaned packaging):  
150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.

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**SECTION 14: Transport information****14.1 UN number**

ADR : 2735  
RID : 2735  
IMDG : 2735  
IATA : 2735

**14.2 Proper shipping name**

ADR : AMINES, LIQUID, CORROSIVE, N.O.S.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Formaldehyde,

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<b>RID</b>	:	oligomeric reaction products with phenol and m-phenylenebis(methylamine) AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine))
<b>IMDG</b>	:	AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine))
<b>IATA</b>	:	AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine))

**14.3 Transport hazard class(es)**

<b>ADR</b>	:	8
<b>RID</b>	:	8
<b>IMDG</b>	:	8
<b>IATA</b>	:	8

**14.4 Packing group**

<b>ADR</b>	
Packing group	: III
Classification Code	: C7
Hazard Identification Number	: 80
Labels	: 8
Limited quantity	: 5,00 L
Tunnel restriction code	: (E)
<b>RID</b>	
Packing group	: III
Classification Code	: C7
Hazard Identification Number	: 80
Labels	: 8
Limited quantity	: 5,00 L
<b>IMDG</b>	
Packing group	: III
Labels	: 8
EmS Number	: F-A, S-B
<b>IATA</b>	
Packing instruction (cargo aircraft)	: 856
Packing instruction (passenger aircraft)	: 852
Packing instruction (LQ)	: Y841
Packing group	: III
Labels	: 8

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**14.5 Environmental hazards****ADR**

Environmentally hazardous : no

**RID**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

**IATA**

Environmentally hazardous : no

**14.6 Special precautions for user**

see chapter: 6, 7 and 8

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
0 %

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances : Update:  
Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Update:  
Not applicable

National legislation

Water contaminating class (Germany) : WGK 2 (water endangering)

Other regulations : Observe national used protectional regulations. Product is subject to §2, §3 and §4 of the Chemicals Prohibition Ordinance. Product is subject to §3 and §4 of the Chemicals Prohibition Ordinance.

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Further information : Reserved for industrial and professional use.

**15.2 Chemical Safety Assessment**

No data available

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**SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

R20/22	Harmful by inhalation and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R26	Very toxic by inhalation.
R34	Causes burns.
R37	Irritating to respiratory system.
R43	May cause sensitisation by skin contact.
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R52	Harmful to aquatic organisms.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R68	Possible risk of irreversible effects.

**Full text of H-Statements referred to under sections 2 and 3.**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

**Other information**

11	Sum of vapor and aerosols.
2	Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel).
DFG	Senate commission for the review of compounds at the work place dangerous for the

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EU	health (MAK-commission). European Union (The EU has established a limit value: deviations in value and peak limit are possible)
H	Skin absorption
skin	Identifies the possibility of significant uptake through the skin
Y	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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