# Tintometer<sup>®</sup> Group Water Testing



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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.11.2023

Version number 9 (replaces version 8)

Revision: 10.11.2023

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

### 1.1 Product identifier

· Product name: Hardness Total Buffer TH2

### · Catalog number:

56Z016098, 56L016030, 56L016065, 56U016030, 56U016065, 56L016072, 56L016097, 56U016072, 56U016097, 56L016090, 56L016095, 56L016099, 56L0160, SDT046

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation: Reagent for water analysis
- · 1.3 Details of the supplier of the safety data sheet
- · Supplier: Tintometer GmbH Schleefstraße 8-12 44287 Dortmund Made in Germany www.lovibond.com
- The Tintometer Limited Lovibond<sup>®</sup>House Sun Rise Way Amesbury Wiltshire SP4 7GR United Kingdom
- Informing department: e-mail: sds@lovibond.com Product Safety Department
- · 1.4 Emergency telephone number: +44 1235 239670 Languages: English

# **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.



STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

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phone : +44 1980 664800 e-mail: SDS@lovibond.uk

> (Contd. on page 2) GB

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### Product name: Hardness Total Buffer TH2

· Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labelling:
- 2-aminoethanol
- · Hazard statements
- H314 Causes severe skin burns and eye damage.
- H335 May cause respiratory irritation.

### Precautionary statements

P260 Do not breathe mist/vapours/spray.

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.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

### 2.3 Other hazards

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

CAS 141-43-5: Danger by skin resorption.

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

### · Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

- Determination of endocrine-disrupting properties
- The product does not contain substances with endocrine disrupting properties.

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

### · 3.2 Mixtures

· Description: aqueous solution

· Dangerous componer	nts:
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· Dangerous components:			
CAS: 141-43-5	2-aminoethanol	20–30%	
EINECS: 205-483-3	Skin Corr. 1B, H314; 🔶 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332;		
Index No: 603-030-00-8	STOT SE 3, H335		
	ATE: LC50/4h inhalative: 11 mg/l		
	Specific concentration limit: STOT SE 3; H335: C $\geq$ 5 %		
CAS: 2002-24-6	2-hydroxyethylammonium chloride	5-<10%	
EINECS: 217-900-6	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335		
• Additional information For the wording of the listed hazard phrases refer to section 16.			

# **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information Instantly remove any clothing soiled by the product.
- After inhalation Supply fresh air or oxygen; call for doctor.
- After skin contact

Wash with polyethylene glycol 400 and then rinse with copious amounts of water.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

· After eye contact

Rinse opened eye for several minutes (at least 15 min) under running water.

- Call a doctor immediately.
- After swallowing

Rinse out mouth and then drink 1-2 glasses of water.

Do not induce vomiting; instantly call for medical help.

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- · 4.2 Most important symptoms and effects, both acute and delayed: burns absorption after inhalation: mucosal irritations, cough, shortness of breath Danger Danger of gastric perforation. Danger of pulmonary oedema. 4.3 Indication of any immediate medical attention and special treatment needed: If swallowed or in case of vomiting, danger of entering the lungs
  - Subsequent observation for pneumonia and pulmonary oedema

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

- 5.1 Extinguishing media
- Suitable extinguishing agents Water, Carbon dioxide (CO<sub>2</sub>), Foam, Fire-extinguishing powder
- · For safety reasons unsuitable extinguishing agents
- For this substance / mixture no limitations of extinguishing agents are given.
- 5.2 Special hazards arising from the substance or mixture

The product is not combustible.

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

nitrous gases

Nitrogen oxides (NOx) Sulphur oxides (SOx)

Hydrogen chloride (HCI)

- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained breathing apparatus. Wear full protective suit.

Additional information

Collect contaminated fire fighting water separately. It must not enter drains.

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

Ambient fire may liberate hazardous vapours.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

· Advice for non-emergency personnel:

Wear protective equipment. Keep unprotected persons away.

Avoid substance contact.

Ensure adequate ventilation

Use breathing protection against the effects of fumes/dust/aerosol.

Advice for emergency responders: Protective equipment: see section 8

• 6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies.

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, universal binders).

Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Advice on safe handling:

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Prevent formation of aerosols.

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### · Hygiene measures:

Do not inhale gases / fumes / aerosols. Do not get in eyes, on skin, or on clothing. Take off immediately all contaminated clothing. Wash hands during breaks and at the end of the work. Do not eat, drink or smoke when using this product.

· 7.2 Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and containers: Store in cool location.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

Protect from heat and direct sunlight.

Store container in a well ventilated position. Protect from the effects of light.

Protect from humidity and keep away from water.

Recommended storage temperature: 20°C +/- 5°C

· 7.3 Specific end use(s) No further relevant information available.

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

### · 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:		
CAS: 141-43-5 2-aminoethanol		
WEL (Great Britain)	Short-term value: 7.6 mg/m³, 3 ppm Long-term value: 2.5 mg/m³, 1 ppm Sk	
IOELV (European Union)	Short-term value: 7.6 mg/m³, 3 ppm Long-term value: 2.5 mg/m³, 1 ppm Skin	
Regulatory information	·	

WEL (Great Britain): EH40/2020 IOELV (European Union): (EU) 2019/1831

### · DNELs

Derived No Effect Level (DNEL)

CAS: 141-43-5 2-aminoethanol		
Oral	DNEL	3.75 mg/kg (Consumer / long-term / systemic effects)
Dermal	DNEL	1 mg/kg (Worker / long-term /systemic effects)
		0.24 mg/kg (Consumer / long-term / systemic effects)
Inhalative		3.3 mg/m³ (Worker / long-term / local effects)
		2 mg/m³ (Consumer / long-term / systemic effects)

### · Recommended monitoring procedures:

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

### · PNECs

Predicted No Effect Concentration (PNEC)

### CAS: 141-43-5 2-aminoethanol

PNEC	100 mg/l (Sewage treatment plant)
	0.0085 mg/l (Marine water)
	0.025 mg/l (Aquatic intermittent release)
	0.085 mg/l (Fresh water)
PNEC	0.035 mg/kg (Soil)
	0.0425 mg/kg (Marine sediment)
	0.425 mg/kg (Fresh water sediment)

· Additional information: The lists that were valid during the compilation were used as basis.

### · 8.2 Exposure controls

### **Engineering measures:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. (Contd. on page 5)

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See item 7.

· Individual protection measures, such as personal protective equipment

- Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.
- · Eye/face protection
- Tightly sealed safety glasses.
- Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.
- · Hand protection
- Preventive skin protection by use of skin-protecting agents is recommended.
- After use of gloves apply skin-cleaning agents and skin cosmetics.
- · Material of gloves
- nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

- · Penetration time of glove material
- Value for the permeation: Level = 1 ( < 10 min )
- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Other skin protection (body protection): Protective work clothing.
- Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- · Recommended filter device for short term use: Filter A
- · Environmental exposure controls Do not allow product to reach sewage system or water bodies.

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

• 9.1 Information on basic physical and chemical prop	ortios
· Physical state	Fluid
· Form:	Liquid
· Colour:	Light brown
· Odour:	Ammonia-like
· Odour threshold:	CAS 141-43-5: 2-4 ppm
· Melting point/Freezing point:	Not determined.
· Boiling point or initial boiling point and boiling rang	
· Flammability	The product is not combustible.
· Explosive properties:	Product is not explosive. However, formation of explosive air/steam
Explosive properties.	mixtures is possible.
· Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
· Flash point:	Not applicable.
• Auto-ignition temperature:	Not applicable.
· Decomposition temperature:	Not determined.
· pH at 20°C	10.5
· Kinematic viscosity	Not determined.
Solubility	
· Water:	Fully miscible
Partition coefficient n-octanol/water (log value)	Not applicable (mixture).
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20°C:	1 g/cm <sup>3</sup>
· Relative density:	Not determined.
Relative gas density	Not determined.
· Particle characteristics	Not applicable (liquid).
9.2 Other information	
Information with regard to physical hazard classes	N/ · I
Corrosive to metals	Void
Other safety characteristics	
• Oxidising properties:	none
· Additional information	- 10.0/
Solids content:	< 10 %
Solvent content:	
· Organic solvents:	20 - 30 %
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· Water:

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< 70 %

# **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** Fumes can combine with air to form an explosive mixture.
- · 10.2 Chemical stability Stable at ambient temperature (room temperature).
- 10.3 Possibility of hazardous reactions
- Reacts with acids, alkalis and oxidizing agents
- If heated:

Forms explosive gas mixture with air

- · 10.4 Conditions to avoid Heating.
- · 10.5 Incompatible materials:
- copper

rubber • 10.6 Hazardous decomposition products: see section 5

# **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	values that	at are relevant for classification:
CAS: 141	43-5 2-an	ninoethanol
Oral	LD50	1720 mg/kg (rat) (GESTIS)
Dermal	LD50	1010 mg/kg (rabbit) (GESTIS)
Inhalative	LC50/4h	11 mg/l (ATE)
<ul> <li>Serious e</li> <li>Causes se</li> <li>Risk of blin</li> </ul>	<b>ye damag</b> erious eye ndness!	
· Informatio		•
		ninoethanol
Irritation o		
Irritation o	f eyes OE	CD 405 (rabbit: burns) (IUCLID)
		sensitisation Based on available data, the classification criteria are not met. aponents: CAS 141-43-5: Sensitizing effect by skin contact is possible by prolonged/repeated exposure.
· Carcinog	enicity Ba	<b>icity</b> Based on available data, the classification criteria are not met. sed on available data, the classification criteria are not met. <b>ity</b> Based on available data, the classification criteria are not met.
OECD 473	1: Teratog 3: Mutagei	nponents: enicity testing nicity testing 6, 487: Germ cell mutagenicity testing
CAS: 141	43-5 2-an	ninoethanol
	(Salmor	ve) (Bacterial Reverse Mutation Test - Ames test) ella typhimurium)
OECD 474	(negativ	/e)
		<b>jet organ toxicity) -single exposure</b> May cause respiratory irritation. <b>Jet organ toxicity) -repeated exposure</b> Based on available data, the classification criteria are not met.
· Aspiratio	hazard l	Based on available data, the classification criteria are not met.
The main	route of al	ly routes of exposure psorption for 2-aminoethanol (MEA) is through the respiratory tract. ility of penetration of the liquid through the skin should not be disregarded. [GESTIS] (Contd. on page 7) GB –

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### · Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### CAS: 141-43-5 2-aminoethanol . (source: GESTIS)

Depending on the concentration and duration of exposure, MEA causes severe irritation or even burns on all contacted mucous membranes and also on the skin, which can occur with a certain delay.

### Symptoms of acute poisoning:

Eyes: Conjunctivitis up to damage to the cornea.

Skin: irritation, swelling; chemical burns possible with prolonged exposure to the undiluted substance; sensitization Inhalation: irritation of the airways up to toxic pulmonary edema; even at lower concentrations, pulmonary dysfunction cannot be ruled out: Resorptive effects can occur relatively quickly

Ingestion: (only experience from animal experiments): irritation to damage to mucous membranes that have been contacted; systemic effects

Absorption (only in animal experiments): loss of muscle tone; sedation, dyspnoea, convulsions, damage to blood vessels; Functional changes up to damage to various organs (especially liver, kidneys, lungs).

### · 11.2 Information on other hazards

· Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

### Other information

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

# **SECTION 12: Ecological information**

### · 12.1 Toxicity

· 12.1 I	OXICITY	
· Aquat	ic toxicity:	
CAS:	141-43-5 2-aminoethanol	
EC50	65 mg/l/48h (Daphnia magna) (IUCLID)	
IC50	22 mg/I/72h (Desmodesmus subspicatus) (IUCLID)	
LC50	150 mg/l/96h (rainbow trout) (IUCLID)	
· 12.2 Persistence and degradability		
CAS:	141-43-5 2-aminoethanol	
OECD	90–100 % / 28 d (readily biodegradable) (Manometric Respirometry)	
12.3 Bioaccumulative potential		

Pow = n-octanol/wasser partition coefficient

log Pow < 1 = Does not accumulate in organisms.

### CAS: 141-43-5 2-aminoethanol

log Pow -1.91 (.) (OECD 107 / 25°C)

### CAS: 2002-24-6 2-hydroxyethylammonium chloride

log Pow -4.8 (calculation)

(Merck)

• **12.4 Mobility in soil** No further relevant information available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

**12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects Avoid transfer into the environment.

· Water hazard:

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

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### **SECTION 13: Disposal considerations**

### · 13.1 Waste treatment methods

· Recommendation

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Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to disposers of hazardous waste.

### · European waste catalogue

16 05 06\* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

· Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information	
SECTION 14: Transport Information	
<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	UN2491
<ul> <li>· 14.2 UN proper shipping name</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>	2491 ETHANOLAMINE SOLUTION ETHANOLAMINE SOLUTION
· 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	8 (C7) Corrosive substances. 8
	~
· Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	III
<ul> <li>• 14.5 Environmental hazards:</li> <li>• Marine pollutant:</li> </ul>	No
• 14.6 Special precautions for user	Warning: Corrosive substances.
· Kemler Number: · EMS Number:	80 F-A,S-B
<ul> <li>Stowage Category</li> <li>Segregation Code</li> </ul>	A SG35 Stow "separated from" SGG1-acids
• 14.7 Maritime transport in bulk according to IM	-
instruments	Not applicable.
· Transport/Additional information:	
<ul> <li>ADR</li> <li>Excepted quantities (EQ):</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	E1 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E (Contri on page 9
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### ·IMDG

Limited quantities (LQ)

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Excepted quantities (EQ)

5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

# SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act UK
- · Regulated explosives precursors

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

### · Regulation (EU) 2019/1148 on the marketing and use of explosives precursors not regulated

· Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)

None of the ingredients is listed.

 Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

None of the ingredients is listed.

· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

### · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

### • Substances of very high concern (SVHC) according to REACH, Article 57

This product does not contain any substances of very high concern above the legal concentration limit of  $\ge 0.1\%$  (w / w). • Substances of very high concern (SVHC) according to UK REACH

This product does not contain any substances of very high concern above the legal concentration limit of  $\ge 0.1\%$  (w / w).

· Directive 2012/18/EU (SEVESO III):

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

#### · Information about limitation of use:

Employment restrictions concerning young persons must be observed (94/33/EC). Employment restrictions concerning pregnant and lactating women must be observed (92/85/EEC).

### • **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

GB —

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· Training hints Provide adequate information, instruction and training for operators.	
Relevant phrasesH302 Harmful if swallowed.H312 Harmful in contact with skin.H314 Causes severe skin burns and eye damage.H315 Causes skin irritation.H319 Causes serious eye irritation.H332 Harmful if inhaled.H335 May cause respiratory irritation.	
<ul> <li>Abbreviations and acronyms: ECs0: effective concentration, 50 percent (in vivo) OECD: Organisation for Economic Co-operation and Development STOT: specific target organ toxicity SE: single exposure RE: repeated exposure RE: repeated exposure CCs0: half maximal effective concentration NOEL or NOEC: No Observed Effect Level or Concentration NDEL or NOEC: No Observed Effect Level or Concentration ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Da Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transpor Dangerous Goods by Rail) IMDC: International Maritime Code for Dangerous Goods LATA: International Maritime Code for Dangerous Goods LATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (IUK REACH) PNEC: Previced No-Effect Level (IUK REACH) PNEC: Previced No-Effect Concentration (IUK REACH) DSI: Lethial concentration, 50 percent LDSO: Lethial concentration, 50 percent DBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern VP:W: very Very Very Very Very Very Very Very V</li></ul>	0
<ul> <li>Sources</li> <li>Data arise from safety data sheets, reference works and literature.</li> <li>GESTIS- Stoffdatenbank (Substance Database, Germany)</li> <li>IUCLID (International Uniform Chemical Information Database)</li> </ul>	

\*\* Data compared to the previous version altered.