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



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

Printing date 27.10.2023

Version number 36 (replaces version 35)

Revision: 27.10.2023

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

- 1.1 Product identifier
- Product name: Chloride-52
- · Catalog number: 424272, 424272-0
- 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



GHS06 skull and crossbones



H311 Toxic in contact with skin.



GHS08 health hazard



GHS09 environment

Aquatic Acute 1H400 Very toxic to aquatic life.Aquatic Chronic 1H410 Very toxic to aquatic life with long lasting effects.

H373 May cause damage to the kidneys through prolonged or repeated exposure.



H302 Harmful if swallowed.

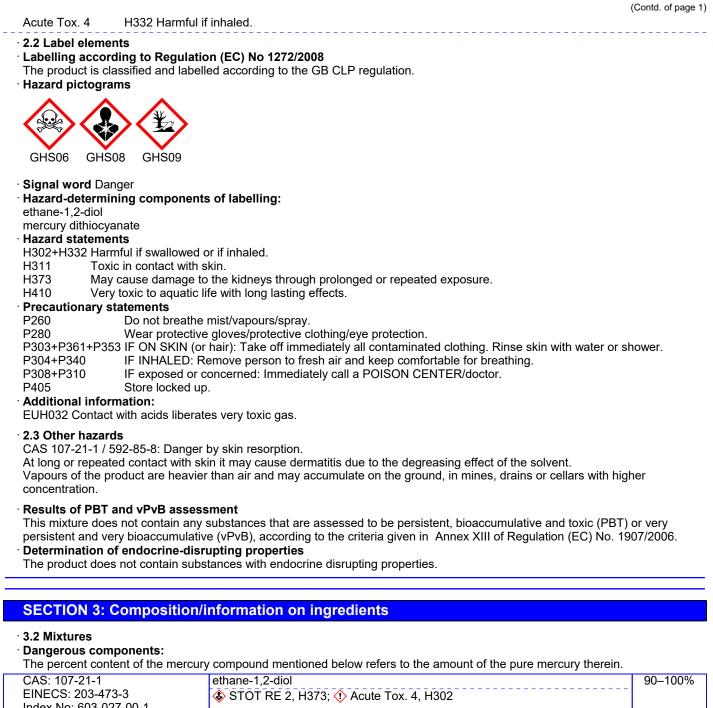
phone: +49 (0)231 94510-0 e-mail: sales@lovibond.com

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

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#### Product name: Chloride-52



Index No: 603-027-00-1 Reg.nr.: 01-2119456816-28-XXXX	v - · · · · · · · · · · · · · · · · · ·				
CAS: 592-85-8	mercury dithiocyanate	0.25–≤2.5%			
EINECS: 209-773-0	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; 🚸 STOT RE				
Index No: 080-002-00-6	♦ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ♦ STOT RE 2, H373; ♦ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410				
	(M=100), EUH032				
	Specific concentration limit: STOT RE 2; H373: C $\ge$ 0.1 %				
Additional information For the wording of the listed hazard phrases refer to section 16.					

GB (Contd. on page 3)

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#### **SECTION 4: First aid measures** 4.1 Description of first aid measures General information Personal protection for the First Aider! Instantly remove any clothing soiled by the product. Remove breathing apparatus only after soiled clothing has been completely removed. After inhalation Supply fresh air or oxygen; call for doctor. In case of irregular breathing or respiratory arrest provide artificial respiration. · After skin contact Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. • After eye contact Rinse opened eye for several minutes (at least 15 min) under running water. Then consult doctor. After swallowing Rinse out mouth and then drink 1-2 glasses of water. Induce vomiting. 4.2 Most important symptoms and effects, both acute and delayed: after swallowing and inhalation: metallic taste sickness vomiting pain bloody diarrhoea drop in blood pressure **CNS** disorders ataxia (impaired locomotor coordination) fatigue Danger Danger of pulmonary oedema. Danger of system failure. Danger of disturbed cardiac rhythm. 4.3 Indication of any immediate medical attention and special treatment needed: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. **SECTION 5: Firefighting measures** 5.1 Extinguishing media · Suitable extinguishing agents CO<sub>2</sub>, extinguishing powder or water spay jet. Fight larger fires with water spray jet or alcohol-resistant foam. · For safety reasons unsuitable extinguishing agents Water with a full water jet. 5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures. combustible Formation of toxic gases is possible during heating or in case of fire. Can be released in case of fire: nitrous gases mercury vapours hydrogen cyanide (prussic acid HCN) Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) 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.

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#### **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. 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. Inform respective authorities in case product reaches water or sewage system. Dilute with much water. 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: Open and handle container with care. Work only in fume cupboard. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Prevent formation of aerosols. Keep ignition sources away - Do not smoke. Hygiene measures: Do not inhale gases / fumes / aerosols. Avoid contact with the skin. 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. Protect from heat. · Information about storage in one common storage facility: Store away from oxidising agents. Do not store together with acids. Further information about storage conditions: Store in a locked cabinet or with access restricted to technical experts or their assistants. Store in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight. Protect from the effects of light. Protect from humidity and keep away from water. This product is hygroscopic.

- 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: 107-21-1 ethane-1,2-diol		
WEL (Great Britain)	Short-term value: 104** mg/m³, 40** ppm Long-term value: 10* 52** mg/m³, 20** ppm Sk *particulate **vapour	
	(Contd on page 5)	

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IOELV (I	European l		(Contd. of page 4)
	•	Long-term value: 52 mg/m³, 20 ppm	
		Skin	
		ercury dithiocyanate	
	reat Britain	as Hg	
BOELV	(European	n Union) Long-term value: 0.02 mg/m³ as Hg	
IOELV (I	European l	Union) Long-term value: 0.02 mg/m³ as Hg	
	ory inform		
		n): EH40/2020 Union): (EU) 2019/1831	
		n Union): EU 2022/431	
· Addition	hal information	nation: IOELV = Indicative Occupational Exposure Limit	
DNELs			
		Level (DNEL)	
		hane-1,2-diol	
Dermal		106 mg/kg (Worker / long-term /systemic effects)	
Inholotiv		53 mg/kg (Consumer / long-term / systemic effects) 35 mg/m³ (Worker / long-term / local effects)	
maauv		7 mg/m³ (Consumer / long-term / local effects)	
Decom		nonitoring procedures:	
	for measu	surement of the workplace atmosphere have to correspond to the requirements of norms DIN EN	482 and
· PNECs			
		ct Concentration (PNEC)	
		hane-1,2-diol	
	•	arine water)	
		quatic intermittent release)	
	• •	resh water)	
	.53 mg/kg		
		kg (Sewage treatment plant) g (Fresh water sediment)	
-		biological limit values:	
		ercury dithiocyanate ain) 20 μmol/mol creatinine	
	Sieat Dilla	Medium: urine	
		Sampling time: random	
		Parameter: mercury	
· Regulat	ory inform	mation BMGV (Great Britain): EH40/2011	
· Addition	nal informa	nation: The lists that were valid during the compilation were used as basis.	
· 8.2 Exp	osure cont	ntrols	
	ering meas al measure	isures: es and appropriate working operations should be given priority over the use of personal protective	e equipment.
Protectiv	e clothing	tion measures, such as personal protective equipment g should be selected specifically for the workplace, depending on concentration and quantity of the	e hazardous
	ces handle		
	e protection	i <b>on</b> Safety glasses	
	ve gloves.		
Preventi	ve skin pro	otection by use of skin-protecting agents is recommended.	
		s apply skin-cleaning agents and skin cosmetics.	
	of gloves ober, NBR		
		ickness of the material: $\geq$ 0.11 mm	
			(Contd. on page 6) GB

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- 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: Combination filter A-P3
- 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:	Solution
· Colour:	Colourless
· Odour:	Sweetish
Odour threshold:	Not determined.
	Not determined.
<ul> <li>Melting point/Freezing point:</li> <li>Boiling point or initial boiling point and boiling range</li> </ul>	
· Flammability	
	Combustible liquid.
· Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· Lower and upper explosion limit	mixtures is possible.
Lower:	3.2 Vol % (CAS 107-21-1, CAS: 107-21-1 ethane-1,2-diol)
Upper: Electronic state	15.3 Vol % (CAS 107-21-1, CAS: 107-21-1 ethane-1,2-diol)
· Flash point:	116°C (CAS107-21-1, c.c. CAS: 107-21-1 ethane-1,2-diol)
Auto-ignition temperature:	410°C (CAS: 107-21-1 ethane-1,2-diol)
Decomposition temperature:	> 110°C (CAS 592-85-8)
· pH at 20°C	5.1
Kinematic viscosity	Not determined.
· Solubility	Fully as is the
· 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:	1.11 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	
· Corrosive to metals	Void
• Other safety characteristics	
• Oxidising properties:	none
· Additional information	
· Solids content:	< 2.5 %
· Solvent content:	
· Organic solvents:	90-100 %
· Water:	0 %

## **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
- Contact with acids releases toxic gases Reacts with acids, alkalis and oxidizing agents
- Reacts with peroxides
- · 10.4 Conditions to avoid strong heating
- 10.5 Incompatible materials:
- aluminium

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#### Product name: Chloride-52

various plastics

• **10.6 Hazardous decomposition products:** Inflammable gases/vapours Toxic metal compounds see section 5

## **SECTION 11: Toxicological information**

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

· Acute toxicity

----

Classification according to calculation procedure: Harmful if swallowed or if inhaled. Toxic in contact with skin.

· LD/LC50	· LD/LC50 values that are relevant for classification:		
CAS: 107	CAS: 107-21-1 ethane-1,2-diol		
Oral	LD50	500 mg/kg (ATE)	
	LD50.	4700 mg/kg (rat) (IUCLID)	
	LDLo	786 mg/kg (human) (RTECS)	
Dermal	LD50	9530 mg/kg (rabbit)	
Inhalative	LC50	>2.5 mg/l/6h (rat) (Aerosol) (Registrant, ECHA)	
CAS: 592-85-8 mercury dithiocyanate			
Oral	LD50	46 mg/kg (rat) (RTECS)	
Dermal	LD50	5 mg/kg (ATE)	
Inhalative	LC50/4h	0.05 mg/l (ATE)	

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

 Information on components: CAS: 107-21-1 ethane-1.2-diol

Irritation of eves OECD 404 (rabbit: no irritation) Irritation of eves OECD 405 (rabbit: no irritation)

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Information on components:

CAS: 107-21-1 ethane-1,2-diol

Sensitisation Patch test (human) (negative)

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

• Carcinogenicity Based on available data, the classification criteria are not met.

• Reproductive toxicity Based on available data, the classification criteria are not met.

· Information on components:

CAS 107-21-1: Did not show carcinogenic effects in animal experiments.

CAS: 107-21-1 ethane-1,2-diol

OECD 471 (negative) (Bacterial Reverse Mutation Test - Ames test) (Escheria coli / Salmonella typhimurium)

· STOT (specific target organ toxicity) -single exposure Based on available data, the classification criteria are not met.

STOT (specific target organ toxicity) -repeated exposure

May cause damage to the kidneys through prolonged or repeated exposure.

· Aspiration hazard Based on available data, the classification criteria are not met.

#### · Additional toxicological information:

Mercury compounds have a cytotoxic and protoplasmatoxic effect.

The principal signs manifest themselves in the CNS.

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#### CAS: 107-21-1 ethane-1,2-diol

(source: GESTIS)

Acute: mild irritant effect on mucous membranes and skin;

neurotoxic effect, cardiovascular disorders, metabolic changes, kidney damage chronic: increased irritant effect on mucous membranes:

no reliable data on resorptive effects in humans available [GESTIS].

#### · 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

· Aquatic toxicity:			
CAS: 107-21-1 ethane-1,2-diol			
LC50 >100 mg/l/48h (Daphnia magna) (OECD 202)			
EC5 >10000 mg/l (Entosiphon sulcatum) (72h)			
LC50 >18500 mg/l/96h (rainbow trout)			
CAS: 592-85-8 mercury dithiocyanate			
EC50 0.0052 mg/l/48h (Daphnia magna)			
IC50 0.162 mg/l/96 h (Desmodesmus subspicatus)			
(Merck; Ankistrodesmus falcatus)			
LC50 0.15 mg/l/96h (fathhead minnow)			
· Bacterial toxicity:			
CAS: 107-21-1 ethane-1,2-diol			
EC5 >10000 mg/l (Pseudomonas putida) (DIN 38412, 16h)			
EC50 >10000 mg/l (Pseudomonas putida) (16h)			
12.2 Persistence and degradability			
The solvent is biodegradable.			
CAS: 107-21-1 ethane-1,2-diol			
OECD 301 A 100 % / 10 d (readily biodegradable) (Die-Away Test)			
· 12.3 Bioaccumulative potential			
Pow = n-octanol/wasser partition coefficient			
log Pow < 1 = Does not accumulate in organisms.			
CAS: 107-21-1 ethane-1,2-diol			
log Pow -1.36 (.) (experimental)			
CAS: 592-85-8 mercury dithiocyanate			

log Pow -0.57 (.)

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

## **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

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· European waste catalogue

· Uncleaned packagings:

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Hand over to disposers of hazardous waste.

Recommendation: Packagings that cannot be cleaned are to b	e disposed of in the same manner as the product.
Disposal must be made according to official	regulations.
SECTION 14: Transport information	on
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3287
14.2 UN proper shipping name ADR	3287 TOXIC LIQUID, INORGANIC, N.O.S. (MERCURY THIOCYANATE),
·IMDG	ENVIRONMENTALLY HAZARDOUS TOXIC LIQUID, INORGANIC, N.O.S. (MERCURY THIOCYANATE), MARINE POLLUTANT
·IATA	TOXIC LIQUID, INORGANIC, N.O.S. (MERCURY THIOCYANATE)
<ul> <li>14.3 Transport hazard class(es)</li> </ul>	
ADR	
Class Label	6.1 (T4) Toxic substances. 6.1
·IMDG	
· Class · Label	6.1 Toxic substances. 6.1
·IATA	
6	
· Class · Label	6.1 Toxic substances. 6.1
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: mercury dithiocyanate
<ul> <li>Marine pollutant:</li> <li>Special marking (ADR):</li> </ul>	Symbol (fish and tree) Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>Kemler Number:</li> </ul>	Warning: Toxic substances.
• EMS Number:	60 F-A,S-A
Segregation groups	(SGG7) Heavy metals and their salts (including their organometallic compounds)
· Stowage Category	A
· Stowage Code	SW2 Clear of living quarters.

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	(Contd. of page
<ul> <li>14.7 Maritime transport in bulk according to IMC instruments</li> </ul>	Not applicable.
· Transport/Additional information:	
ADR	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	2
• Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	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	
CAS: 592-85-8 mercury dithiocyanate	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)	
CAS: 592-85-8 mercury dithiocyanate	Annex I Part 1
	Annex I Part 3 Annex V Part 2
• Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use ite technology:	ms and
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 on drug precursors	
None of the ingredients is listed.	
<ul> <li>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community an in drug precursors</li> </ul>	d third countries
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.	
<ul> <li>Substances of very high concern (SVHC) according to REACH, Article 57</li> <li>This product does not contain any substances of very high concern above the legal concentration limit of ≥ 0.1</li> <li>Substances of very high concern (SVHC) according to UK REACH</li> <li>This product does not contain any substances of very high concern above the legal concentration limit of ≥ 0.1</li> </ul>	

· Directive 2012/18/EU (SEVESO III):

• Named dangerous substances - ÁNNEX I None of the ingredients is listed.

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- · Seveso category E1 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 18
- · 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).
- National regulations
- VOC-value EC: 1122.1 g/l

• 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.

· Training hints Provide adequate information, instruction and training for operators.

#### · Relevant phrases

- H300 Fatal if swallowed.
- Harmful if swallowed. H302
- H310 Fatal in contact with skin.
- H330 Fatal if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH032 Contact with acids liberates very toxic gas.

#### Abbreviations and acronyms:

OECD: Organisation for Economic Co-operation and Development

- STOT: specific target organ toxicity
- SE: single exposure

RE: repeated exposure EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration

NOEL 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 Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Acute toxicity - Category 2 Acute Tox. 4: Acute toxicity - Category 4

Acute Tox. 1: Acute toxicity – Category 1 Acute Tox. 3: Acute toxicity – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

#### Sources

Data arise from safety data sheets, reference works and literature. IUCLID (International Uniform Chemical Information Database) RTECS (Registry of Toxic Effects of Chemical Substances) ECHA: European CHemicals Agency http://echa.europa.eu GESTIS- Stoffdatenbank (Substance Database, Germany)

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

