Tintometer[®] Group Water Testing



Page 1/8

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

Printing date 14.11.2023

Version number 14 (replaces version 13)

Revision: 14.11.2023

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

- · 1.1 Product identifier
- Product name: Cyanide-11
- · Catalog number: 418875-11, 418874-11, 2418874 (Set: Cyanide-11)
- 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[®]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
- Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements
- H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
- P273 Avoid release to the environment.
- · 2.3 Other hazards No further relevant information available.
- · 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.

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(Contd. on page 2)

Version number 14 (replaces version 13)

Revision: 14.11.2023

Product name: Cyanide-11

Printing date 14.11.2023

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 \cdot **Description:** Mixture of organic and inorganic compounds

· Dangerous components:		
CAS: 51580-86-0		0.25–<1%
EINECS: 220-767-7	♦ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); ♦ Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335, EUH031	
Index No: 613-030-01-7	4, H302; Eye Irrit. 2, H319; STOT SE 3, H335, EUH031	
Reg.nr.: 01-2119489371-33-XXXX		
• Additional information For the wording of the listed bazard phrases refer to section 16		

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.
- · After skin contact Instantly rinse with water.
- · After eye contact
- Rinse opened eye for several minutes under running water (at least 15 min). If symptoms persist, consult doctor.
- After swallowing
- Rinse out mouth and then drink 1-2 glasses of water.
- In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed:
- irritations
- mucous membrane irritation
- · 4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- 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:
- Hydrogen chloride (HCI)
- Sulphur oxides (SOx)
- Sodium oxide
- 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

- $^{\circ}$ 6.1 Personal precautions, protective equipment and emergency procedures
- Advice for non-emergency personnel:
- Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- Avoid causing dust.
- 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.

Version number 14 (replaces version 13)

Revision: 14.11.2023

Product name: Cyanide-11

· 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Collect mechanically. 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: No special precautions necessary if used correctly. · Hygiene measures: 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: see chapter 10 · Further information about storage conditions: Protect from heat and direct sunlight. Store in cool, dry conditions in well sealed containers.

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: 51580-86-0 sodium dichloroisocyanurate, dihydrate

WEL (Great Britain) Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

· Regulatory information WEL (Great Britain): EH40/2020

· 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.

· 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. 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
- 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: ≥ 0.11 mm
- Penetration time of glove material
- Breakthrough time: > 480 min

(Contd. of page 2)

Version number 14 (replaces version 13)

Revision: 14.11.2023

Printing date 14.11.2023

- 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 P1
- · 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	perties
Physical state	Solid.
· Form:	Powder
· Colour:	White
· Odour:	Chlorine-like
· Odour threshold:	Not determined.
 Melting point/Freezing point: 	Not determined.
Boiling point or initial boiling point and boiling rang	e Not determined.
· Flammability	The product is not combustible.
 Explosive properties: 	Product is not explosive.
• Lower and upper explosion limit	
Lower:	Not applicable.
Upper:	Not applicable.
· Flash point:	Not applicable.
 Auto-ignition temperature: 	Not applicable (solid).
Decomposition temperature:	Not determined.
[.] pH (10 g/l) at 20°C	6.3
Kinematic viscosity	Not applicable (solid).
Solubility	
· Water:	Soluble
 Partition coefficient n-octanol/water (log value) 	Not applicable (mixture).
· Vapour pressure:	Not applicable (solid).
Density and/or relative density	
· Density:	Not determined.
Relative density:	Not determined.
Relative gas density	Not applicable (solid).
 Particle characteristics 	Not determined.
• 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:	100 %

SECTION 10: Stability and reactivity

• 10.1 Reactivity see section 10.3

· 10.2 Chemical stability Stable at ambient temperature (room temperature).

10.3 Possibility of hazardous reactions

- Reacts with acids, alkalis and oxidizing agents --> forms heat
- · 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: alkali metals

10.6 Hazardous decomposition products: see section 5

GB (Contd. on page 5)

(Contd. of page 3)

Version number 14 (replaces version 13)

Revision: 14.11.2023

(Contd. of page 4)

Product name: Cyanide-11

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 are relevant for classification: CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate LD50 1671 mg/kg (rat) (EPA OPP 81-1) Oral (ECHA) >5000 mg/kg (rat) (EPA OPP 81-2) Dermal LD50 (ECHA) · 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: 51580-86-0 sodium dichloroisocyanurate, dihydrate Irritation of eyes OECD 405 (rabbit: burns) (US-EPA) · Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Information on components: CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate Sensitisation OECD 406 (guinea pig: negative) (EPA OPP 81-6: Guinea pig maximisation test) · 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: OECD 414: Teratogenicity testing OECD 473: Mutagenicity testing OECD 471, 474, 476, 487: Germ cell mutagenicity testing CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate Oral OECD 475 (negative) (Chromosomal Aberration Test) (rat, male) **OECD 471** (guinea pig: negative) (Bacterial Reverse Mutation Test - Ames test)

Escherichia coli

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

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

· 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: 5	1580-86-0 sodium dichloroisocyanurate, dihydrate	
EC50	0.28 mg/l/48h (Daphnia magna) (ECOTOX)	
NOEC	2600 mg/l (Daphnia magna) (OECD 2011, 21d) (Registrant, ECHA)	
	1000 mg/l (rainbow trout) (OECD 2015, 28d) (Registrant, ECHA)	
LC50	0.25 mg/l/96h (rainbow trout) (ECOTOX)	
· Bacter	ial toxicity: sulphates toxic > 2.5 g/l	

Version number 14 (replaces version 13)

Revision: 14.11.2023

Product name: Cyanide-11

Printing date 14.11.2023

Other information:

Toxic for fish: Sulphates > 7 g/l

• 12.2 Persistence and degradability

CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate

OECD 306 4 /% / 60d (.)

· 12.3 Bioaccumulative potential No further relevant information available.

- **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.
- **12.6 Endocrine disrupting properties** The product does not contain substances v
- 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.

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. Hand over to disposers of hazardous waste.

· European waste catalogue

16 05 07* discarded inorganic chemicals consisting of or containing hazardous substances

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information	
 14.1 UN number or ID number ADR, IMDG, IATA 	Void
 14.2 UN proper shipping name ADR, IMDG, IATA 	Void
 14.3 Transport hazard class(es) 	
· ADR, IMDG, IATA · Class	Void
 14.4 Packing group ADR, IMDG, IATA 	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk according to l instruments 	MO Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

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.

(Contd. of page 5)

Version number 14 (replaces version 13)

Revision: 14.11.2023

Product name: Cyanide-11

Printing date 14.11.2023

	(Contd. of page
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	
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 technology:	of exports of dual-use items and
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 be in drug precursors	tween the Community and third countrie
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)	

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.
- · Information about limitation of use: Not required.
- 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.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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

· Relevant phrases

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates 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)

GB —

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

Version number 14 (replaces version 13)

Revision: 14.11.2023

Product name: Cyanide-11

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) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Sources
Data arise from safety data sheets, reference works and literature.
Data arise from salety data sheets, reference works and merature.

ECHA: European CHemicals Agency http://echa.europa.eu ECOTOX Database

** Data compared to the previous version altered.

(Contd. of page 7)