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



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

phone: +44 1980 664800

e-mail: SDS@lovibond.uk

Page 1/9

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

Printing date 15.05.2024 Version number 19 (replaces version 18) Revision: 15.05.2024

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

- · 1.1 Product identifier
- · Product name: Sulfite No. 1
- · Catalog number: 00515271, 515270BT, 4515270BT, 00515279BT, 505270, 00505270, SDT434
- 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



Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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



GHS07

- · Signal word Warning
- · Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 2)

Printing date 15.05.2024 Version number 19 (replaces version 18) Revision: 15.05.2024

Product name: Sulfite No. 1

(Contd. of page 1)

· Precautionary statements

P280 Wear protective gloves / eye protection. P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• 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.

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

- · 3.2 Mixtures
- · Description: Mixture of organic and inorganic compounds

	Dang	erous	comi	ponents:
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CAS: 5329-14-6 EINECS: 226-218-8 Index No: 016-026-00-0 Reg.nr.: 01-2119846728-XXXX

 50–60%

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; consult doctor in case of symptoms.
- · After skin contact

Instantly rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact

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

Call a doctor immediately.

· After swallowing

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

Do not induce vomiting.

Call a doctor immediately.

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

after inhalation:

breathing difficulty

coughing

irritations

after swallowing:

pain

cramps

mucous membrane irritation

gastric or intestinal trouble

· 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.
- 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.

(Contd. on page 3)

(Contd. of page 2)

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

Printing date 15.05.2024 Version number 19 (replaces version 18) Revision: 15.05.2024

Product name: Sulfite No. 1

nitrous gases
Sulphur oxides (SOx)

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.

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.

#### 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:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

#### · Hygiene measures:

Avoid contact with the skin.

Avoid contact with the eyes.

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: Do not store together with alkalis (caustic solutions).
- Further information about storage conditions:

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.

- · Recommended storage temperature: 20°C +/- 5°C
- · 7.3 Specific end use(s) No further relevant information available.

GB -

Printing date 15.05.2024 Version number 19 (replaces version 18) Revision: 15.05.2024

Product name: Sulfite No. 1

(Contd. of page 3)

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

· 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 9004-34-6 cellulose

WEL (Great Britain) Short-term value: 20\* mg/m³

Long-term value: 10\* 4\*\* mg/m³ \*inhalable dust \*\*respirable

- 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
- Hand protection

Protective gloves.

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: Combination filter B-P2
- · Environmental exposure controls Do not allow product to reach sewage system or water bodies.

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

 $\cdot$  9.1 Information on basic physical and chemical properties

Physical state
Form:
Colour:
Odourless
Odour threshold:
Melting point/Freezing point:
Boiling point or initial boiling point and boiling range

Solid.
Tablets
Whitish
Odourless
Not applicable.
Not determined.
Boiling point or initial boiling point and boiling range
Not determined.

Flammability

The product is not combustible.

Explosive properties:

Product is not explosive.

· Lower and upper explosion limit

Lower:
Upper:
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable (solid).
Decomposition temperature:
Not determined.

· pH (40.8 g/l) at 20°C 1.03

· Kinematic viscosity Not applicable (solid).

· Solubility

· Water: Partly soluble

· Partition coefficient n-octanol/water (log value) Not applicable (mixture).

(Contd. on page 5)

Printing date 15.05.2024 Version number 19 (replaces version 18) Revision: 15.05.2024

Product name: Sulfite No. 1

(Contd. of page 4)

Vapour pressure: Not applicable.
 Density and/or relative density
 Density: Not determined.

Relative density:
Relative gas density
Particle characteristics
Not determined.
Not applicable (solid).
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 water.

Aqueous solution reacts acidic.

Aqueous solution reacts with metals.

Forms hydrogen in aqueous solution with metals

Reacts with halogenated compounds

Reacts with acids, alkalis and oxidizing agents

Violent reactions possible with:

**Nitrates** 

chlorine

- · 10.4 Conditions to avoid Strong heating (decomposition)
- · 10.5 Incompatible materials: metals
- · 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 are relevant for classification:

CAS: 5329-14-6 sulfamic acid

Oral LD50 3160 mg/kg (rat) (GESTIS)

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Information on components:

CAS: 5329-14-6 sulfamic acid

Irritation of skin OECD 404 (rabbit: irritation)
Irritation of eyes OECD 405 (rabbit: irritation)

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

(Contd. on page 6)

Printing date 15.05.2024 Version number 19 (replaces version 18) Revision: 15.05.2024

Product name: Sulfite No. 1

(Contd. of page 5)

CAS: 5329-14-6 sulfamic acid		
OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test)	
	(Salmonella typhimurium)	
OECD 476	(negative) (In Vitro Mammalian Cell Gene Mutation Test)	
OECD 474	(negative) (mouse, oral)	
OECD 487	(negative) (In Vitro Mammalian Cell Micronucleus Test)	

- · 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.
- · Additional toxicological information:

Other dangerous properties can not be excluded.

#### CAS: 5329-14-6 sulfamic acid

(source: GESTIS)

Main toxic effects

Acute: Irritative through to corrosive effects to the mucous membranes and skin;

insufficient information available on systemic effects

Chronic: No information available

- · 11.2 Information on other hazards
- · Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

#### CAS: 5329-14-6 sulfamic acid

EC50 71.6 mg/l/48h (Daphnia magna) (OECD 202)

EC50 14.2 mg/l/96h (fish)

(GESTIS)

LC50 70.3 mg/l/96h (fathhead minnow) (OECD 203)

(Merck)

· Bacterial toxicity:

#### CAS: 5329-14-6 sulfamic acid

EC10 ≥1000 mg/l (Pseudomonas putida) (16h)

(IUCLID)

- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential

Pow = n-octanol/wasser partition coefficient

log Pow < 1 = Does not accumulate in organisms.

#### CAS: 5329-14-6 sulfamic acid

log Pow 0.1 (.) (experimental)

(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 undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

#### **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.

(Contd. on page 7)

Printing date 15.05.2024 Version number 19 (replaces version 18) Revision: 15.05.2024

Product name: Sulfite No. 1

Hand over to disposers of hazardous waste.

(Contd. of page 6)

· 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	in	format	ion
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· 14.1 UN number or ID number · ADR, IMDG, IATA	UN2967		
· 14.2 UN proper shipping name			
ADR	2967 SULPHAMIC ACID mixture		
· IMDG, IATA	SULPHAMIC ACID mixture		

- · 14.3 Transport hazard class(es)
- · ADR



· Class 8 (C2) Corrosive substances.

· Label

· IMDG, IATA



· Class 8 Corrosive substances.

· Label 8

· 14.4 Packing group

· ADR, IMDG, IATA Ш

· 14.5 Environmental hazards: Not applicable.

Warning: Corrosive substances. · 14.6 Special precautions for user

Kemler Number: 80 · EMS Number: F-A,S-B · Segregation groups (SGG1) Acids

Stowage Category

· 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5 kg · Excepted quantities (EQ) Code: E1

> Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

· Transport category 3 Е

Tunnel restriction code

· Limited quantities (LQ) 5 kg

(Contd. on page 8)

(Contd. of page 7)

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

Printing date 15.05.2024 Version number 19 (replaces version 18) Revision: 15.05.2024

Product name: Sulfite No. 1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

 Excepted quantities (EQ) Code: E1

#### **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 ≥ 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 ≥ 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)

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Printing date 15.05.2024 Version number 19 (replaces version 18) Revision: 15.05.2024

Product name: Sulfite No. 1

H412 Harmful to aquatic life with long lasting effects.

(Contd. of page 8)

#### 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)

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

Data arise from safety data sheets, reference works and literature.

GESTIS- Stoffdatenbank (Substance Database, Germany)

IUCLID (International Uniform Chemical Information Database)

\* Data compared to the previous version altered.

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