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



Page 1/9

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

Printing date 14.11.2023

Version number 9 (replaces version 8)

Revision: 14.11.2023

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

- · 1.1 Product identifier
- · Product name: As 3 Reagent
- · Catalog number: 400730
- 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



GHS09 environment

Aquatic Acute 1H400 Very toxic to aquatic life.Aquatic Chronic 1H410 Very toxic 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



- · Signal word Warning
- Hazard statements
- H410 Very toxic to aquatic life with long lasting effects.
- Precautionary statements

P273 Avoid release to the environment.

· 2.3 Other hazards No further relevant information available.

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Version number 9 (replaces version 8)

Revision: 14.11.2023

#### Product name: As 3 Reagent

#### · 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 inorganic compounds.

<ul> <li>Dangerous components:</li> </ul>		
CAS: 7440-66-6	zinc powder - zinc dust (stabilized)	25-50%
EINECS: 231-175-3	Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1)	-
Index No: 030-001-01-9		
Reg.nr.: 01-2119467174-37-XXXX		
CAS: 13472-45-2	sodium tungstate	1-≤5%
EINECS: 236-743-4	♦ Acute Tox. 4, H302	-
· 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 wash with water and soap and rinse thoroughly.
- · 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 symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed:
- after absorption:
- gastric or intestinal trouble
- sickness
- vomiting
- cramps
- cardiovascular disorders
- 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
- Special powder for metal fires. Sand
- For safety reasons unsuitable extinguishing agents Water
- Foam
- 5.2 Special hazards arising from the substance or mixture
- mixture with combustible ingredients

Risk of dust explosion

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

- Hydrogen chloride (HCI)
- hydrogen Zinc oxide
- 5.3 Advice for firefighters
- · Protective equipment:
- Wear self-contained breathing apparatus. Wear full protective suit.

(Contd. of page 1)

Version number 9 (replaces version 8)

Revision: 14.11.2023

#### Product name: As 3 Reagent

#### · 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 breathing 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: 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:
- Store away from flammable substances.
- Store away from water.
- 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: 13472-45-2 sodium tungstate		
WEL (Great Britain) Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ as W		
• 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.

(Contd. of page 2)

Version number 9 (replaces version 8)

Revision: 14.11.2023

## Product name: As 3 Reagent

Additional informa	tion: The lists that were valid during the compilation were used as basis.
8.2 Exposure cont	rols
<b>Engineering meas</b> Technical measures See item 7.	<b>ures:</b> s and appropriate working operations should be given priority over the use of personal protective equipment
Protective clothing s substances handled <b>Eye/face protectio</b> Safety glasses use against the effe Use safety glasses <b>Hand protection</b> Preventive skin prot After use of gloves <b>Material of gloves</b> nitrile rubber, NBR Recommended thic <b>Penetration time o</b> Breakthrough time: The exact break tro <b>Other skin protect</b>	n cts of fumes / dust that have been tested and approved in accordance with government standards such as EN 166. rection by use of skin-protecting agents is recommended. apply skin-cleaning agents and skin cosmetics. kness of the material: ≥ 0.11 mm f glove material > 480 min ugh time has to be found out by the manufacturer of the protective gloves and has to be observed. <b>ion (body protection):</b> Protective work clothing.
	ent: Use breathing protection against the effects of fumes/dust/aerosol. er device for short term use: Filter P1
	<b>posure controls</b> Do not allow product to reach sewage system or water bodies.

Form:PowderColour:GreyOdour threshold:Not applicable.Melting point/Freezing point:Not determined.Boiling point or initial boiling point and boiling range908°C (CAS: 7440-66-6 zinceFlammabilityNot determined.Explosive properties:The product is not capable of enrichment with fine dust cateLower and upper explosion limitNot determined.Lower:Not determined.Upper:Not determined.Flash point:Not determined.Flash point:Not determined.Upper:Not determined.Fueromposition temperature:Not applicable (solid).Decomposition temperature:Not determined.pHNot determined.Kinematic viscosityNot applicable (solid).SolubilityVapour pressure:Water:Partition coefficient n-octanol/water (log value)Partition coefficient n-octanol/water (log value)Not applicable (solid).Density and/or relative densityNot determined.Relative density:Not determined.Particle characteristicsNot determined.	
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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	

(Contd. of page 3)

. of page 4)

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

Version number 9 (replaces version 8)

Revision: 14.11.2023

#### Product name: As 3 Reagent

Printing date 14.11.2023

		(Contd.
<ul> <li>Other safety characteristics</li> </ul>		
<ul> <li>Oxidising properties:</li> </ul>	none	
• Additional information		
· Solids content:	100 %	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity

Risk of dust explosion

Dust 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 moist air

Reacts with acids, alkalis and oxidizing agents

Reacts with peroxides

Reacts with halogenated compounds

Develops readily flammable gases / fumes

- **10.4 Conditions to avoid** Exposure to moisture.
- 10.5 Incompatible materials: combustible substances
- · 10.6 Hazardous decomposition products:

Hydrogen

(with water)

In case of fire: 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.

· Acute t	oxicity	estimate (AT	E <sub>(MIX)</sub> ) - Calculation method:
Oral Cl	Oral CLP ATE <sub>(MX)</sub> >2000 mg/kg (.)		
· LD/LC5	i0 value	s that are rel	evant for classification:
CAS: 74	440-66-	6 zinc powde	er - zinc dust (stabilized)
Oral	LD50.	>2000 mg/kg (Registrant, E	(rat) Echa: limit test, no mortality observed)
CAS: 13	3472-45	5-2 sodium tu	ngstate
Oral	LD50	1190 mg/kg ( (RTECS)	rat)
Dermal	LD50.		(rat) (OECD 402) test, there were no deaths during the study.)
<ul> <li>Skin corrosion/irritation Based on available data, the classification criteria are not met.</li> <li>Serious eye damage/irritation Based on available data, the classification criteria are not met.</li> </ul>			
· Information on components:			
CAS: 13	3472-45	5-2 sodium tu	ngstate
Irritation	n of skin	OECD 404	(rabbit: no irritation) (Merck)
Irritatior	n of eyes	s OECD 405	(rabbit: no irritation)
· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.			
· Informa	ation or	n component	S:
CAS: 1	3472-45	5-2 sodium tu	ngstate

Sensitisation OECD 406 (guinea pig: negative) (Merck)

· 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.

Version number 9 (replaces version 8)

Revision: 14.11.2023

(Contd. of page 5)

#### Product name: As 3 Reagent

Printing date 14.11.2023

#### · Information on components:

CAS 7440-66-6: Did not show teratogenic effects in animal experients (IUCLID).

CAS 7440-66-6: Did not show carcinogenic effects in animal experiments (IUCLID).

CAS 7440-66-6: No impairment of reproductive performance in animal experiments (IUCLID).

OECD 414: Teratogenicity testing OECD 473: Mutagenicity testing

OECD 471, 474, 476, 487: Germ cell mutagenicity testing

CAS: 13472	CAS: 13472-45-2 sodium tungstate			
OECD 476	(negative) (In Vitro Mammalian Cell Gene Mutation Test)			
	(Merck)			
OECD 473	(negative) (Mammalian Chromosomal Aberration Test)			
	(Chinese hamster; ovary cells)			
OECD 474	(negative) (Mammalian Erythrocyte Micronucleus Test)			
	(Meck: mouse, male, oral)			

• 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: 7	CAS: 7440-66-6 zinc powder - zinc dust (stabilized)				
EC50	EC50 0.356 mg/l/48h (Daphnia magna) (US-EPA)				
NOEC	0.169 mg/l/96h (fish) (30d) (Registrant, ECHA: Cottus bairdii)				
NOEC	0.0727 mg/l (Daphnia magna) (21 d) (ECHA, Registrant)				
EC50	0.106 mg/l/72h (Pseudokirchneriella subcapitata) (Merck)				
LC50	0.238–0.269 mg/l/96h (fathhead minnow) (Merck)				
CAS: 1	3472-45-2 sodium tungstate				
NOEC	>9.8 mg/l (zebrafish) (OECD 210; 38 d) (Merck)				
EC50	>17.7 mg/l/72h (Pseudokirchneriella subcapitata) (OECD 201) (Merck)				
· Other i	Other information:				
Toxic f	Taxic for fish:				

I oxic for fish:

- Zn > 0.1 mg/l
- 12.2 Persistence and degradability .

• Other information:

Mixture of inorganic compounds.

Methods for the determination of biodegradability are not applicable to inorganic substances.

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.

12.7 Other adverse effects Avoid transfer into the environment.

Version number 9 (replaces version 8)

Product name: As 3 Reagent

Revision: 14.11.2023

(Contd. of page 6)

#### · Water hazard:

Printing date 14.11.2023

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.

SECTION 14: Transport information	on
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3077
· 14.2 UN proper shipping name · ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
·IMDG	(zinc powder - zinc dust (stabilized)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc powder - zinc dust (stabilized)), MARINE POLLUTANT
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc powder - zinc dust (stabilized))
<ul> <li>14.3 Transport hazard class(es)</li> </ul>	
ADR	
· Class · Label	9 (M7) Miscellaneous dangerous substances and articles. 9
· Class · Label	9 Miscellaneous dangerous substances and articles. 9
· 14.4 Packing group · ADR, IMDG, IATA	111
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: zinc powder - zinc dust (stabilized)
· Marine pollutant:	Symbol (fish and tree)
<ul> <li>Special marking (ADR):</li> <li>Special marking (IATA):</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: Miscellaneous dangerous substances and articles. 90
· Kemier Number:	90 F-A,S-F
Segregation groups	(SGG7) Heavy metals and their salts (including their organometallic compounds)
· Stowage Category	A Í Í
	(Contd. on page 8) 

Version number 9 (replaces version 8)

Revision: 14.11.2023

#### Product name: As 3 Reagent

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· Stowage Code	SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9
14.7 Maritime transport in bulk according to	
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
· Tunnel restriction code	E
·IMDG	
· 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

## **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.	

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  $\geq 0.1\%$  (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.

· Seveso category E1 Hazardous to the Aquatic Environment

Version number 9 (replaces version 8)

Revision: 14.11.2023

#### Product name: As 3 Reagent

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · 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. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

#### 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 Acute Tox. 4: Acute toxicity – Category 4

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. ECHA: European CHemicals Agency http://echa.europa.eu RTECS (Registry of Toxic Effects of Chemical Substances)

\* Data compared to the previous version altered.

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