Tintometer[®] Group Water Testing



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

Printing date 27.09.2022

Version number 7 (replaces version 6)

Revision: 27.09.2022

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

- 1.1 Product identifier
- Product name: Phosphate No.2 LR
- · Catalog number: 00513051, 513050BT, 4513050BT, 513051BT, 4513051BT, 00513059BT, 56T600340
- 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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

· 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 Danger
- Hazard-determining components of labelling: disodium disulphite
- · Hazard statements
- H318 Causes serious eye damage.
- Precautionary statements
- P280 Wear protective gloves / eye protection.

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

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

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

P313

· Additional information:

EUH031 Contact with acids liberates toxic gas.

· 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

 Dangerous components: 			
CAS: 7681-57-4	disodium disulphite	Eye Dam. 1, H318; () Acute Tox. 4, H302, EUH031	10–20%
EINECS: 231-673-0			
Index No: 016-063-00-2			
Reg.nr.: 01-2119531326-45-XXXX			
· Additional information For the wo	ording of the listed hazar	d 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 (at least 15 min) under running water.

- Call a doctor immediately.
- · After swallowing
- Rinse out mouth and then drink 1-2 glasses of water.
- In case of persistent symptoms consult doctor.
- Information for doctor Sulphites are strong sensitizers.
- 4.2 Most important symptoms and effects, both acute and delayed:

burns sickness after absorption: allergic reactions vomiting gastric or intestinal trouble 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 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. Can be released in case of fire:

Sulphur oxides (SOx)

Nitrogen oxides (NOx)

Sodium oxide

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained breathing apparatus.

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- 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
 Advice for emergency responders: Put on breathing apparatus.

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.

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: 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:
- Store away from oxidising agents. Do not store together with acids.
- 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.
 Store under dry conditions.
 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: 7681-57-4 disodium disulphite

WEL (Great Britain) Long-term value: 5 mg/m³

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

Derived No Effect Level (DNEL)

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Product name: Phosphate No.2 LR

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CAS: 7681-57-4 disodium disulphite Inhalative DNEL 10 mg/m² (Worker / long-term /systemic effects) (MERCK) * 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. * PNEC5 Predicted No Effect Concentration (PNEC) CAS: 7681-57-4 disodium disulphite PNEC PNEC 75.4 mg/l (Sewage treatment plant) 0.1 mg/l (Marine water) 1 mg/l (Fresh water) * 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 equipm 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 hazards substances handled. Eyelface protection Tightly sealed 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. M	Inhalative DN • Recommend Methods for r DIN EN 689. • PNECs Predicted No CAS: 7681-5 PNEC 75.4 r 0.1 m 1 mg/ • Additional in • 8.2 Exposure • Engineering Technical me See item 7. • Individual pr Protective clo substances h	DNEL 10 mg/m³ (Worker / long-term /systemic effects) (MERCK) nded monitoring procedures: r measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and 9. No Effect Concentration (PNEC) -57-4 disodium disulphite 4 mg/l (Sewage treatment plant) mg/l (Marine water) ig/l (Fresh water) information: The lists that were valid during the compilation were used as basis. ure controls ng measures:
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• Other skin protection (body protection): Protective work clothing.	Protective glc Preventive sk After use of g Material of g nitrile rubber, Recommende Penetration Value for the The exact bre	clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous s handled. rotection Tightly sealed safety glasses. ection gloves. skin protection by use of skin-protecting agents is recommended. f gloves apply skin-cleaning agents and skin cosmetics. f gloves er, NBR nded thickness of the material: ≥ 0.11 mm n time of glove material he permeation: Level = 1 (< 10 min) preak trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and che	emical properties	
Physical state	Solid.	
Form:	Tablets	
Colour:	Cream coloured	
Odour:	Light	
Odour threshold:	Not determined.	
Melting point/Freezing point:	Not determined.	
Boiling point or initial boiling point and b	oiling range 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.	
Ignition temperature:	Not applicable (solid).	
Decomposition temperature:	> 150 °C	
pH (14.3 g/l) at 20°C	4.7	
Kinematic viscosity	Not applicable (solid).	
Solubility		
Water:	Soluble	

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· Partition coefficient n-octanol/water (log value)	Not applicable (mixture).	
· Vapour pressure:	Not applicable.	
Density and/or relative density		
· Density at 20°C:	2.5 g/cm ³	
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	6	
· Corrosive to metals	Void	
· Other safety characteristics		
Oxidising properties:	none	
Additional information		
· Solids content:	100.0 %	

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
- Contact with acids releases toxic gases
- Reacts with acids releasing sulphur dioxide
- Reacts with oxidizing agents
- 10.4 Conditions to avoid To avoid thermal decomposition do not overheat.
- 10.5 Incompatible materials: aluminium
- 10.6 Hazardous decomposition products:
- Sulphur dioxide
- 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

CAS: 768		disodium disulphite	
Oral	LD50	1540 mg/kg (rat) (OECD 401) (MERCK)	
Dermal	LD50.	>2000 mg/kg (rat) (RTECS)	
Inhalative	LC50	>5.5 mg/l /4h (rat) (OECD 403) Registrant, ECHA: the value is given in analogy to sodium sulphite	

Risk of corneal clouding.

 Information on components: CAS: 7681-57-4 disodium disulphite

Irritation of skin OECD 404 (rabbit: no irritation)

Irritation of eyes OECD 405 (rabbit: severe irritations)

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

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Information	on components: (Contd. of page
	57-4 disodium disulphite
	OECD 406 (guinea pig: negative)
Conclucation	OECD 429 (negative)
	Local lymph node assay (LLNA) - Mouse
	Prolonged or repeated exposure may cause allergic reactions in certain sensitive
	individuals.
Germ cell m	nutagenicity Based on available data, the classification criteria are not met.
	icity Based on available data, the classification criteria are not met.
Reproductiv	ve toxicity Based on available data, the classification criteria are not met.
	on components:
CAS 7681-57	7-4: Did not show carcinogenic effects in animal experiments (IUCLID).
	7-4: No impairment of reproductive performance in animal experiments (IUCLID). 7-4: Did not show teratogenic effects in animal experients.
	Teratogenicity testing
OECD 473: N	Mutagenicity testing
OECD 471, 4	474, 476, 487: Germ cell mutagenicity testing
	57-4 disodium disulphite
OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test)
STOT (spec	ific target organ toxicity) -single exposure Based on available data, the classification criteria are not met.
	ific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met.
Asniration h	nazard Based on available data, the classification criteria are not met.
-	
	oxicological information: n acute molybdenum(VI) intoxication: diarrhoea, anaemia, fatigue, loss of appetite. Toxic effect on liver and kidneys
after	racule molybuendin (vr) intoxication. diarnoea, anaemia, latigue, loss of appetite. Toxic effect on liver and kidneys
high doses.	
CAS: 7681-5	57-4 disodium disulphite
. (source: G	JESTIS)
Main toxic	
	ant effect on the eyes and respiratory tract, acute intolerance reactions (in case of disposition)
chronic: all	lergic skin diseases (rare)
Further info	ormation (Merck):
	of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache,
nausea, an	nd vomiting.
Persons wi	ith allergies and/or asthma may exhibit hypersensitivity to sulfites.
11.2 Informa	ation on other hazards
	disrupting properties The product does not contain substances with endocrine disrupting properties.
SECTION	12: Ecological information
12.1 Toxicity	N .
Aquatic toxi	-
	57-4 disodium disulphite
	g/I/48h (Daphnia magna) (OECD 202)
(MER	
	g/I/72h (Desmodesmus subspicatus) (OECD 201)
(MER	
•	220 mg/l/96h (rainbow trout) (DIN 38412 Teil 15)
(Merc	
Bacterial to	
sulphates tox	xic > 2.5 g/l
	57-4 disodium disulphite
	g/l (Pseudomonas putida) (17h)
EC50 56 mg (IUCL Other inform	ÎD)

Toxic for fish:

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sulphates > 7 g/l

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molybdenum compounds in general: > 25 mg/l NH_4^* > 0.3 mg/l

• 12.2 Persistence and degradability No further relevant information available.

• 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

Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of water supplies. 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.

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	
 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 IM instruments 	IO 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

· 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.

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	(Contd. of page
 Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of duatechnology: 	al-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 between the Comm in drug precursors 	unity and 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.	
 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 lim Substances of very high concern (SVHC) according to UK REACH 	it of ≥ 0.1% (w / w).

- This product does not contain any substances of very high concern above the legal concentration limit of $\geq 0.1\%$ (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.

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

· Relevant phrases

- H302 Harmful if swallowed.
- Causes serious eye damage. H318
- 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: hallf 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. 4: Acute toxicity – Category 4

Eye Dam. 1: Serious eye damage/eye irritation - 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)

Version number 7 (replaces version 6)

Revision: 27.09.2022

Product name: Phosphate No.2 LR

GESTIS- Stoffdatenbank (Substance Database, Germany)

** Data compared to the previous version altered.

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Printing date 27.09.2022