Tintometer[®] Group Water Testing



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

Printing date 13.11.2023

Version number 2 (replaces version 1)

Revision: 13.11.2023

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

- 1.1 Product identifier
- · Product name: Hydrogen Peroxide LR Titrant HP3
- · Catalog number: 56Z649698, 56L6496, 56L649630, 56L649665, 56U649630, 56U649665, SDT053
- 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.

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

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

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** aqueous solution

· Dangerous components:		
EINECS: 231-760-3	potassium permanganate ♦ Ox. Sol. 2, H272; ♦ Repr. 2, H361d; STOT RE 2, H373; ♦ Skin Corr. 1C, H314; ♦ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ♦ Acute Tox. 4, H302	0.025–≤0.1%
• 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 persistent symptoms consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.
- 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.
- 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
- · Advice for emergency responders: Protective equipment: see section 8
- · 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

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.

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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: Not required.
- · Further information about storage conditions:

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.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:		
CAS: 7722-64-7 potassium permanganate		
	Long-term value: 0.2* 0.05** mg/m ³ as Mn *inhalable fraction **respirable fraction	
	Long-term value: 0.2* 0.05** mg/m³ as Mn; *inhalable, **respirable fraction	

Regulatory information WEL (Great Britain): EH40/2020

IOELV (European Union): (EU) 2019/1831

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 against the effects of fumes / dust

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: \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 only when aerosol or mist is formed.

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· 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 pro	nortios	
· Physical state	Fluid	
· Form:	Liquid	
· Colour:	Pink	
· Odour:	Odourless	
· Odour threshold:	Not applicable.	
· Melting point/Freezing point:	0°C	
Boiling point or initial boiling point and boiling range		
· 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.	
· Decomposition temperature:	Not applicable.	
· pH	Neutral	
· Kinematic viscosity	Not determined.	
Solubility		
· 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 g/cm³	
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:	< 0.1 %	
· Solvent content:		
· Organic solvents:	0 %	
· Water:	> 99.9 %	

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

Violent reactions possible with:

The generally known reaction partners of water.

• 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: see section 5

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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/LC5	0 value	es that are relevant for classification:
CAS: 77	22-64-	7 potassium permanganate
Oral	LD50	750 mg/kg (rat) (RTECS)
	LDLo	100 mg/kg (human) (IUCLID)
Dermal	LD50.	>2000 mg/kg (rat) (OECD 402) (ECHA; no death of animals at this concentration, limit test)
Ckin oo	rracia	n/irritation Based on available data, the classification criteria are not met.
· Serious	eye da	amage/irritation Based on available data, the classification criteria are not met.
 Serious Information 	eye da ition oi	
 Serious Informa CAS: 77 	eye da ition oi 22-64-	amage/irritation Based on available data, the classification criteria are not met. n components:
 Serious Informa CAS: 77 Irritation 	eye da tion or 722-64- of skin	amage/irritation Based on available data, the classification criteria are not met. n components: 7 potassium permanganate 0 OECD 404 (rabbit: burns)
 Serious Informa CAS: 77 Irritation Respira 	eye da ition or 722-64- of skin	amage/irritation Based on available data, the classification criteria are not met. n components: 7 potassium permanganate 1 OECD 404 (rabbit: burns) Merck: Burns after prolonged exposure.
Serious Informa CAS: 77 Irritation · Respira · Informa	tion or 722-64- of skin tory or	amage/irritation Based on available data, the classification criteria are not met. n components: 7 potassium permanganate n OECD 404 (rabbit: burns) Merck: Burns after prolonged exposure. r 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

CAS: 7722-64-7 potassium permanganate

(OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test)
		(Escherichia col i/ Salmonella typhimurium)
	OECD 476	(negative) (In Vitro Mammalian Cell Gene Mutation Test)
	OECD 474	(negative) (Mammalian Erythrocyte Micronucleus Test)

(Merck: rat, male and female, oral, bone marrow)

• 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: 7722-64-7 potassium permanganate	
EC50 0.056 mg/l/48h (Daphnia magna)	
(ECOTOX)	
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EC50	0.41 mg/l/72h (Algeal toxicity) (ECOTOX)
LC50	0.1 mg/l/96h (fish) (Ictalurus catus / ECOTOX)
• Other Mixtur Metho • 12.3 E Pow =	Persistence and degradability . information: e of inorganic compounds. ds for the determination of biodegradability are not applicable to inorganic substances. Bioaccumulative potential = n-octanol/wasser partition coefficient = w < 1 = Does not accumulate in organisms.
CAS:	7722-64-7 potassium permanganate
log Po	w -1.73 (.) (calculated) (Merck)
· 12.5 F This n persis	Nobility in soil No further relevant information available. Results of PBT and vPvB assessment hixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very tent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006. 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.

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 IMO	
instruments	Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.	

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SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Poisons Act UK

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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

CAS: 7722-64-7 potassium permanganate

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 7722-64-7 potassium permanganate

· 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 $\ge 0.1\%$ (w / w).
- Directive 2012/18/EU (SEVESO III):
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · 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

H272 May intensify fire; oxidiser.

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H361d Suspected of damaging the unborn child.
- 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.

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· 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 Ox. Sol. 2: Oxidizing solids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Repr. 2: Reproductive toxicity - Category 2 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 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 compared to the previous version altered.

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