Lovibond[®] Water Testing

Tintometer® Group



Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 07/18/2024

Reviewed on 07/18/2024

1 Identification

· Product identifier

- · Trade name: Glutaraldehyde Alkaline Solution
- · Catalogue number:

56Z043998, 56L043995, 56U043995, 56L043965, 56U043965, 56L043973, 56L043999, 56U043999, 56U043973, 56L043997, 56L043930, 56U043930, 56L0439

- · Application of the substance / the mixture: Reagent for water analysis
- Manufacturer/Supplier: Tintometer Inc. 6456 Parkland Drive Sarasota, FL 34243 USA phone: (941) 756-6410 fax: (941) 727-9654 www.lovibond.us Made in Germany
- · Emergency telephone number: + 1 866 928 0789 (English, French, Spanish)

2 Hazard(s) identification

· Classification of the substance or mixture



Corrosive to Metals 1 H290 May be corrosive to metals.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Hazard Communication Standard (HCS).
- · Hazard pictograms



· Signal word Warning

- · Hazard statements
- H290 May be corrosive to metals.
- Precautionary statements
 P234 Keep only in original container.
 P390 Absorb spillage to prevent material damage.
- · Other hazards No further relevant information available.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** aqueous solution
- · Composition and Information on Ingredients:
- Percent ranges are used due to the confidential product information.

CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 RTECS: WB4900000	♦ Corrosive to Metals 1, H290; Skin Corrosion 1A, H314	0.1-<0.5%
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· Additional information: For the wording of the listed hazard phrases refer to section 16.

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4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes (at least 15 min) under running water. If symptoms persist, consult a doctor.
- After swallowing:
- Rinse out mouth and then drink 1-2 glasses of water.
- If symptoms persist consult doctor.
- · Most important symptoms and effects, both acute and delayed irritations
- · Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · 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.
- Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

- Wear fully protective suit.
- Additional information
- Collect contaminated fire fighting water separately. It must not enter the sewage system.
- Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Ambient fire may liberate hazardous vapours.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Advice for non-emergency personnel:
- Wear protective equipment. Keep unprotected persons away.
- Ensure adequate ventilation
- · Advice for emergency responders: Protective equipment: see section 8
- Environmental precautions: Do not allow product to reach sewage system or any water course. Dilute with plenty of water.
- Methods and material for containment and cleaning up:
- Ensure adequate ventilation.
- Use neutralizing agent.

Absorb with liquid-binding material (sand, diatomite, universal binders).

Dispose contaminated material as waste according to section 13.

- · Reference to other sections
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling
- · Advice on safe handling: No special precautions are necessary if used correctly.
- · Hygiene measures:
- Take off immediately all contaminated clothing. Wash hands before breaks and at the end of work.

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Do not eat, drink or smoke when using this product.

· Conditions for safe storage, including any incompatibilities

· Requirements to be met by storerooms and receptacles:

- Store in a cool location.
- Keep only in original container.
- · Information about storage in one common storage facility: Store away from metals.
- · Further information about storage conditions:
- Protect from heat and direct sunlight.

Protect from exposure to the light.

- Protect from humidity and water.
- · Recommended storage temperature: 20°C +/- 5°C (approx. 68°F)

• Specific end use(s) No further relevant information available.

8 Exposure controls/	personal	protection

· Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists that were valid during the creation were used as basis.

· Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

· Personal protective equipment:

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

· Breathing equipment:

Under normal use conditions according to the instruction manual no personal protective equipment is needed.

If exposure limits are exceeded or health impacts are experienced use respiratory protective device against the effects of fume/ dust/aerosol.

- · Recommended filter device for short term use: Filter P1
- · Protection of hands:

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 \leq 1 (10 min)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection:
- Safety glasses

use against the effects of fumes / dust

Use protective goggles that have been tested and approved in accordance with government standards (like NIOSH).

· Body protection: Protective work clothing

· Limitation and supervision of exposure into the environment:

Do not allow product to reach sewage system or any water course.

9 Physical and chemical properties

 Information on basic physical and chemical · Appearance: 	properties
 Form / Physical state: 	Liquid
· Color:	Colorless
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value at 20°C (68°F):	12
,	Strongly alkaline
 Melting point/freezing point: 	0°C (32°F)
Initial boiling point and boiling range:	100°C (212°F) (CAS: 7732-18-5 water)

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· Flash point:	Not applicable.
Flammability (solid, gas):	The product is not combustible.
· Auto igniting:	Not applicable.
· Decomposition temperature:	Not applicable.
Auto-ignition temperature:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Flammability or explosive limits:	
Lower:	Not applicable.
Upper:	Not applicable.
Oxidizing properties:	none
· Vapor Pressure:	Not determined.
· Density at 20°C (68°F):	1 g/cm³ (8.35 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
• Evaporation rate:	Not determined.
· Solubility(ies)	
· Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not applicable (mixture).
· · · · · · · · · · · · · · · · · · ·	Not determined.
· Viscosity:	Not determined.
· Kinematic:	Not determined.
· Other information	
· Solids content:	< 1 %
· Solvent content:	
· Organic solvents:	0 %
· Water:	> 99 %
· Information with regard to physical hazard c	lasses .
· Corrosive to metals	May be corrosive to metals.
	Information on incompatible materials can be found in Sections 7 and 10
· Corrosion Rate of Metal:	
· Corrosion rate (aluminum)	20.0 mm/a

10 Stability and reactivity

· Reactivity see section "Possibility of hazardous reactions"

- · Chemical stability Stable at ambient temperature (room temperature).
- Possibility of hazardous reactions

Corrosive action on metals.

Corrodes aluminium.

Exothermic reaction with acids.

Violent reactions possible with:

The generally known reaction partners of water.

· Conditions to avoid No further relevant information available.

- · Incompatible materials:
- light metals

aluminum

zinc

· Hazardous decomposition products: see section 5

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · Primary irritant effect:

· on the skin: Based on available data, the classification criteria are not met.

- on the eye: Based on available data, the classification criteria are not met.
- · Information on components: CAS 1310-73-2: chronic: dermatitis

· Sensitization: Based on available data, the classification criteria are not met.

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Care		in ont	
Carc	inoger	lic cate	egories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

• Other information: see section 8 / 15

· Synergistic Products: None

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): The following statements refer to the mixture:

· 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.

• 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.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability .
- · Other information:
- Mixture of inorganic compounds.
- Methods for the determination of biodegradability are not applicable to inorganic substances.
- · Bioaccumulative potential No further relevant information available.
- **Mobility in soil** No further relevant information available.
- Other adverse effects

Harmful effect due to pH shift.

Neutralization possible in waste water treatment plants.

Avoid transfer into the environment.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to hazardous waste disposers.

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

4 Transport information		
· UN-Number · DOT, IMDG, IATA	UN1824	
· UN proper shipping name		
DOT	Sodium hydroxide solution	
· IMDG, IATA	SODIUM HYDROXIDE SOLUTION	
		(Contd. on page

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· Transport hazard class(es)	
· DOT	
CORROSIVE 8	
· Class	8 Corrosive substances
Label	8
· IMDG, IATA	
· Class · Label	8 Corrosive substances 8
· Packing group · DOT, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	No
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Segregation Code 	Warning: Corrosive substances 80 F-A,S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids
 Transport in bulk according to Annex II of MARPOL73/7 and the IBC Code 	8 Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

15 Regulatory information

· Section 355 (Extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	

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· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· New Jersey Right-to-Know List:	
CAS: 1310-73-2 sodium hydroxide	
New Jersey Special Hazardous Substance List:	
CAS: 1310-73-2 sodium hydroxide	CO, R1
· Pennsylvania Right-to-Know List:	
CAS: 1310-73-2 sodium hydroxide	
Pennsylvania Special Hazardous Substance List:	
CAS: 1310-73-2 sodium hydroxide	E
EPA (Environmental Protection Agency)	· · · · · ·
None of the ingredients is listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

Information about limitation of use: Not required.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Version number / date of revision: 6 / 07/18/2024

Abbreviations and acronyms: EC50: effective concentration, 50 percent (in vivo) 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 ACGIH[®] - American Conference of Governmental Industrial Hygienists •A1 - Confirmed human carcinogen •A2 - Suspected human carcinogen •A3 - Confirmed animal carcinogen with unknown relevance to humans •A4 - Not classifiable as a human carcinogen •A5 - Not suspected as a human carcinogen IARC - International Agency for Research on Cancer •Group 1 - Carcinogenic to humans •Group 2A - Probably carcinogenic to humans •Group 2B - Possibly carcinogenic to humans Group 3 - Not classifiable as to carcinogenicity to humans •Group 4 - Probably not carcinogenic to humans NTP - National Toxicology Program, U.S. Department of Health and Human Services •Group K - Known to be Human Carcinogens •Group R - Reasonably Anticipated to be Human Carcinogens IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Corrosive to Metals 1: Corrosive to metals - Category 1

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Skin Corrosion 1A: Skin corrosion/irritation - Category 1A

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

** Data compared to the previous version altered.

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