Lovibond[®] Water Testing

Tintometer® Group



Reviewed on 08/23/2021

Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 08/23/2021

1 Identification

- · Product identifier
- Trade name: Ca Mg Hardness Sol 3
- · Catalogue number: 471220
- · 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

GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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



- · Signal word Danger
- · Hazard-determining components of labeling:
- tetrasodium ethylenediaminetetraacetate
- Hazard statements
- H318 Causes serious eye damage.
- Precautionary statements
- P280 Wear eye protection / face protection.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a doctor.

· 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.

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CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate	25–35%
EINECS: 200-573-9	📀 Eye Dam. 1, H318; 🕦 Acute Tox. 4, H302	
Index number: 607-428-00-2		
RTECS: AH 5075000		
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Trade name: Ca Mg Hardness Sol 3

	(0	Contd. of page 1)
CAS: 50-00-0	formaldehyde	<0.1%
EINECS: 200-001-8	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; 🕹 Muta. 2, H341;	
Index number: 605-001-00-5	♦ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ♦ Muta. 2, H341; Carc. 1B, H350; ♦ Skin Corr. 1B, H314; ↑ Skin Sens. 1, H317; Flam. Liq. 4, H227	
RTECS: LP 8925000	v v	
· Additional information: For	the wording of the listed hazard phrases refer to section 16.	

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 rinse with plenty of water.
- If skin irritation or rash occurs: Get medical advice/attention.
- · 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.
- If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed
- Irritation and corrosion
- after swallowing: sickness
- vomiting

gastric or intestinal disorders

• **Danger:** Risk of serious damage to eyes.

· 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.

- In case of fire, the following can be released:
- Nitrogen oxides (NOx)
- Carbon monoxide (CO) and carbon dioxide (CO_2)
- 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

- \cdot 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
- · Environmental precautions: Do not allow product to reach sewage system or any water course.
- $^{\rm \cdot}$ Methods and material for containment and cleaning up:
- Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, universal binders). Dispose contaminated material as waste according to item 13.

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· 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:

Avoid contact with the skin.

Avoid contact with the eyes.

Take off immediately all contaminated clothing.

- Wash hands before breaks and at the end of work. 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.
- Unsuitable material for container: metals, metal alloys
- Information about storage in one common storage facility: Not required.
- 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: Use respiratory protective device against the effects of fume/dust/aerosol.
- Recommended filter device for short term use: Filter P2
- · Protection of hands:
- 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: ≥ 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: Tightly sealed goggles
- · 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.

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Trade name: Ca Mg Hardness Sol 3

9 Physical and chemical properties

Appearance:Form / Physical state:SolutionColor:ColorlessOdor:OdorlessOdor threshold:Not applicable.pH-value at 20°C (68°F):10.4Melting point/freezing point:Not determined.Initial boiling point and boiling range:Not determined.Flash point:Not determined.Flash point:Not applicable.Flammability (solid, gas):The product is not combustible.Ignition temperature:> 150°C (> 302°F)Auto-ignition temperature:> Product is not self-igniting.Danger of explosion:Product does not present an explosion hazard.Flammability or explosive limits:Not applicable.Lower:Not applicable.Vupper:Not applicable.Vapor Pressure:Not determined.Vapor Pressure:Not determined.Vapor density:Not determined.	· Information on basic physical and che	emical properties
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• Other information	· Viscosity:	
	· Kinematic:	Not determined.
• Solids content: 25 - 35 %	· Other information	
	· Solids content:	25 - 35 %

≤ 0.1 %

> 60 %

10 Stability and reactivity

Solvent content:

· Water:

Organic solvents:

- · Reactivity see section "Possibility of hazardous reactions"
- · Chemical stability Stable at ambient temperature (room temperature).
- · Possibility of hazardous reactions Reacts with strong oxidizing agents.
- · Conditions to avoid To avoid thermal decomposition do not overheat.
- · Incompatible materials: metals
- · 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.

· LD/LC50 values that are relevant for classification:

CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

Oral LD50 >1780 mg/kg (rat) (OECD 401)

(ECHA)

· Primary irritant effect:

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

· on the eye:

Causes serious eye damage. Risk of corneal clouding.

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 50-00-0 formaldehyde

· NTP (National Toxicology Program)

CAS: 50-00-0 formaldehyde

· OSHA-Ca (Occupational Safety & Health Administration)

CAS: 50-00-0 formaldehyde

• 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:

CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

EC50 >100 mg/l/48h (Daphnia magna)

NOEC 25 mg/l /21d (Daphnia magna) (OECD 201)

• Persistence and degradability No further relevant information available.

· Bioaccumulative potential

Pow = n-octanol/wasser partition coefficient

log Pow < 1 = Does not accumulate in organisms.

CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

log Pow -13 (.)

Mobility in soil No further relevant information available.

· Other adverse effects 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.
- \cdot Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information		
· UN-Number · DOT, IMDG, IATA	none	
· UN proper shipping name · DOT, IMDG, IATA	none	
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	(Contd. of page 5)
 Transport hazard class(es) 	
· DOT, IMDG, IATA · Class	none
 Packing group DOT, IMDG, IATA 	none
· Environmental hazards:	Not applicable.
 Special precautions for user 	Not applicable.
 Transport in bulk according to Annex II of MARPOL73/ and the IBC Code 	78 Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

15 Regulatory information

· Sara	
· 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	
CAS: 50-00-0 formaldehyde	
CAS: 67-56-1 methanol	
· Proposition 65	
· Chemicals known to cause cancer:	
CAS: 50-00-0 formaldehyde	
· 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:	
CAS: 67-56-1 methanol	
· New Jersey Right-to-Know List:	
CAS: 50-00-0 formaldehyde	
CAS: 67-56-1 methanol	
· New Jersey Special Hazardous Substance List:	
CAS: 50-00-0 formaldehyde	CA, CO, MU, F4
CAS: 67-56-1 methanol	TE, F3
· Pennsylvania Right-to-Know List:	
CAS: 50-00-0 formaldehyde	
· Pennsylvania Special Hazardous Substance List:	
CAS: 50-00-0 formaldehyde	ES
· EPA (Environmental Protection Agency)	
CAS: 50-00-0 formaldehyde	B
·NIOSH-Ca (National Institute for Occupational Safety and Health)	
CAS: 50-00-0 formaldehyde	

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US

· 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

- H227 Combustible liquid.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.

· Date of preparation / last revision 08/23/2021 / -

Abbreviations and acronyms:

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 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 4: Flammable liquids - Category 4 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 2 Carc. 1B: Carcinogenicity - Category 1B

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