Lovibond® Water Testing

Tintometer® Group



Safety Data Sheet acc. to OSHA HCS (HazCom 2012)

Printing date 11/12/2018 Reviewed on 11/12/2018

1 Identification

- · Product identifier
- · Trade name: KS19 Conductivity Calibration Solution, 12.88 mS/cm
- · Catalogue number: 56Z001998, 56L001997, 56U001997, 56L001965, 56U001965
- · Application of the substance / the mixture: Standard Solution for calibration purposes
- · Manufacturer/Supplier:

Tintometer Inc. 6456 Parkland Drive Sarasota, FL 34243 USA phone: (941) 756-6410 fax: (941) 727-9654

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 The product is not classified as hazardous.
- · Label elements
- · GHS label elements none
- · Hazard pictograms none
- · Signal word none
- · Hazard statements none
- · 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.

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air.
- · After skin contact: Immediately rinse with plenty of water.
- · 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 No further relevant information available.
- · 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.

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- · 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: No special measures required.
- · 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.

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

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling No special measures required.
- Advice on safe handling: No special precautions are necessary if used correctly.
- · Hygiene measures:

The usual precautionary measures for handling chemicals should be followed.

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
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- $\cdot \ \, \text{Further information about storage conditions:}$

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:
- · Breathing equipment:

Not required.

Use respiratory protective device against the effects of fumes/dust/aerosol.

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- · Protection of hands: Preventive skin protection by use of skin-protecting agents is recommended.
- · Eye protection: Goggles recommended during refilling.
- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment: No further relevant information available.

9 Physical and chemical properties

9 Physical and Chemical properties		
· Information on basic physical and chemical properties · Appearance:		
Form / Physical state: Color:	Fluid Colorless	
· Odor: · Odor threshold:	Odorless Not applicable.	
· pH-value at 20°C (68°F):	7	
 Melting point/freezing point: Initial boiling point and boiling range 	Not applicable. : 100°C (212°F)	
· Flash point:	Not applicable.	
· Flammability (solid, gas): · Ignition temperature:	Not applicable. Not applicable.	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not self-igniting.	
 Danger of explosion: Flammability or explosive limits: Lower: 	Product does not present an explosion hazard. Not applicable.	
Upper:	Not applicable.	
Oxidizing properties:	none	
 Vapor Pressure at 20°C (68°F): Density at 20°C (68°F): Relative density: Vapor density: Evaporation rate: 	23 hPa (17.3 mm Hg) 1 g/cm³ (8.35 lbs/gal) Not determined. Not determined. Not determined.	
· Solubility(ies) Water:	Fully miscible.	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity: · Dynamic: · Kinematic:	Not determined. Not determined. Not determined.	
· Solvent content: Organic solvents: Water: Solids content:	0.0 % > 99 % < 1 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity see section "Possibility of hazardous reactions"
- \cdot Chemical stability Stable at ambient temperature (room temperature).
- · Possibility of hazardous reactions The generally known reaction partners of water.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

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· 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: No irritant effect.
- · on the eye: Based on available data, the classification criteria are not met.
- · Sensitization: No sensitizing effects known.
- · Carcinogenic categories
- · 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.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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 No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Small amounts may be diluted with plenty of water (3 to 5 times the volume) and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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

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14 Transport information

UN-Number DOT, IMDG, IATA INDOM UN proper shipping name DOT, IMDG, IATA INDOM Transport hazard class(es) DOT, IMDG, IATA Class INDOT, IMDG, IATA Class INDOT, IMDG, IATA Class INDOT, IMDG, IATA INDOT Environmental hazards: IMARINE pollutant: INDOT Special precautions for user INDOT Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code INDOT Not applicable.			
UN proper shipping name DOT, IMDG, IATA none Transport hazard class(es) DOT, IMDG, IATA Class none Packing group DOT, IMDG, IATA none Environmental hazards: Marine pollutant: No Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	· UN-Number		
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Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	· Environmental hazards:		
Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	· Marine pollutant:	No	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	marino ponatanti	110	
and the IBC Code Not applicable.	· Special precautions for user	Not applicable.	
and the IBC Code Not applicable.	· Transport in bulk according to Annex II of MARPOL73/78		
The second Additional informations	and the IDC Code	Not applicable.	
· I ransport/Aggitional information: Not danderous according to the above specifications.	· Transport/Additional information:	Not dangerous according to the above specifications.	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · 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 ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· 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:

None of the ingredients is listed.

· New Jersey Special Hazardous Substance List:

None of the ingredients is listed.

· Pennsylvania Right-to-Know List:

None of the ingredients is listed.

· Pennsylvania Special Hazardous Substance List:

None of the ingredients is listed.

· 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.

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· 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.

Date of preparation / last revision 11/12/2018 / 1

· Abbreviations and acronyms:

EC50: effective concentration, 50 percent (in vivo)

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)

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit**

- · Sources Data arise from safety data sheets, reference works and literature.
- · * Data compared to the previous version altered.