Lovibond[®] Water Testing

Tintometer® Group



Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 12/21/2017

1 Identification

- · Product identifier
- · Trade name: Alk-Test
- · Catalogue number: 00515571, 515570BT, 4515570BT, 515571BT, 4515571BT, 5155700, 00515579BT
- · 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:
- sodium bisulfate
- · 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: Mixture of organic and inorganic compounds
- · Composition and Information on Ingredients:

Percent ranges are used due to the confidential product information.

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		(Co	ntd. of page 1)
CAS: 9004-34-6 EINECS: 232-674-9	cellulose		90–100%
RTECS: FJ5691460			
CAS: 7681-38-1 EINECS: 231-665-7	sodium bisulfate	 Eye Dam. 1, H318	5–10%
Index number: 016-046-00-X			
RTECS: VZ1860000			
• 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.
- \cdot 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.

- 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 inhalation:
- mucosal irritations, cough, breathing difficulty
- after swallowing of large amounts:
- irritations gastric or intestinal disorders
- diarrhoea
- · Danger: Danger of pulmonary edema.
- 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

mixture with combustible ingredients

The product is in tablet form not flammable.

- Formation of toxic gases is possible during heating or in case of fire.
- In case of fire, the following can be released:
- Sulfur oxides (SOx)
- Sodium oxide
- Carbon monoxide (CO) and carbon dioxide (CO₂)
- 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.

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 Methods and material for containment and cleaning up: Ensure adequate ventilation. 	
Pick up mechanically.	
Dispose contaminated material as waste according to item 13.	
· Reference to other sections	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
7 Handling and storage	
· Handling:	
· Precautions for safe handling	
· Advice on safe handling: Prevent formation of dust.	
· Hygiene measures:	
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	
· Storage:	
• Requirements to be met by storerooms and receptacles: Store in a cool location.	
Information about storage in one common storage facility: Store away from oxidizing agents.	
• Further information about storage conditions:	
Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.	
Protect from exposure to the light.	
Store in dry conditions.	
Protect from humidity and water.	
This product is hygroscopic.	
· 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:

CAS: 9004-34-6 cellulose	
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction
TLV (USA)	Long-term value: 10 mg/m³
EL (Canada)	Long-term value: 10* 3** mg/m³ *total dust, **respirable fraction
	Long-term value: 10 mg/m³ paper fibre, total dust

• 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: Use respiratory protective device against the effects of fumes/dust/aerosol.
- Recommended filter device for short term use: Filter P2
- · 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: ≥ 0.11 mm

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· 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 courses system or any under courses

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

9 Physical and chemical properties

· Information on basic physical and chemical properties		
 Appearance: Form / Physical state: Color: 	Tablets Pink	
· Odor: · Odor threshold:	Odorless Not applicable.	
[.] pH-value (1.78 g/l) at 20 °C (68 °F):	3.1	
 Melting point/freezing point: Initial boiling point and boiling range: 	Not determined. Not determined.	
· Flash point:	Not applicable.	
· Flammability (solid, gas):	The product is not combustible.	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not self-igniting.	
· Danger of explosion:	As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.	
 Flammability or explosive limits: Lower: Upper: 	Not determined. Not determined.	
· Oxidizing properties:	none	
 Vapor Pressure: Density: Relative density: Vapor density: Evaporation rate: 	Not applicable. Not determined. Not determined. Not applicable. Not applicable.	
· Solubility(ies) Water:	Partly soluble.	
· Partition coefficient (n-octanol/water):	Not applicable.	
· Viscosity:	Not applicable.	
 Solvent content: Organic solvents: Solids content: 	0.0 % 100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity Dust can combine with air to form an explosive mixture.

- · Chemical stability Stable at ambient temperature (room temperature).
- Possibility of hazardous reactions Liberates acid in contact with water or alcohol.
- Reacts with strong alkalis and oxidizing agents.
- Conditions to avoid strong heating • Incompatible materials: metals

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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

· LD/LC50 values that are relevant for classification: CAS: 9004-34-6 cellulose Oral LD50. >5000 mg/kg (rat)		
Oral LD50. >5000 mg/kg (rat)		
Dermal LD50. >2000 mg/kg (rabbit) (RTECS, limit test)		
Inhalative LC50. >5.8 mg/l/4h (rat) (RTECS, limit test)		
CAS: 7681-38-1 sodium bisulfate		
Oral LD50 2490 mg/kg (rat) (IUCLID)		
Dermal LD50. >2000 mg/kg (rabbit)		
 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. 		
[•] Information on components:		
CAS: 9004-34-6 cellulose		
Irritation of skin OECD 404 (rabbit: no irritation)		
Irritation of eyes OECD 405 (rabbit: no irritation)		
CAS: 7681-38-1 sodium bisulfate		
Irritation of skin OECD 404 (rabbit: no irritation)		
Irritation of eyes OECD 405 (rabbit: severe irritations)		
· Sensitization: Based on available data, the classification criteria are not met.		
· Information on components:		
CAS: 9004-34-6 cellulose		
Sensitization OECD 406 (guinea pig: negative)		
· 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.

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12 Ecological information

· Toxicity

· Aquatic toxicity: CAS: 7681-38-1 sodium bisulfate

EC50 190 mg/l/48h (Daphnia magna)

(IUCLID)

Bacterial toxicity:

sulfates toxic > 2.5 g/l

CAS: 7681-38-1 sodium bisulfate

EC10 >1000 mg/l (Pseudomonas putida) (16 h)

· Other information:

Toxic for fish:

sulfates > 7 g/l

• Persistence and degradability No further relevant information available.

· Bioaccumulative potential No further relevant information available.

· 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.

14 Transport information	
· UN-Number · DOT, IMDG, IATA	none
· 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:	Not applicable.
· Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
· 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 · Sara

Section 355 (Extremely hazardous substances):

None of the ingredients is listed.

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 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:	
CAS: 9004-34-6 cellulose	
· New Jersey Special Hazardous Substance List:	
None of the ingredients is listed.	
· Pennsylvania Right-to-Know List:	
CAS: 9004-34-6 cellulose	
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: Employment restrictions concerning young persons must be observed.

· 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

H318 Causes serious eye damage.

· Date of preparation / last revision 12/21/2017 / 22

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

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

ADR: Accord européen sur le transport 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)

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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

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)

** Data compared to the previous version altered.

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