## **Lovibond® Water Testing**

### Tintometer® Group



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

Printing date 04/17/2024 Reviewed on 04/17/2024

#### 1 Identification

· Product identifier

· Trade name: Buffer pH 10

· Catalogue number: 00515601, 515600BT, 4515600BT, 515601BT, 4515601BT, 00515609BT

· 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

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 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**: Mixture of organic and inorganic compounds
- Composition and Information on Ingredients:

Percent ranges are used due to the confidential product information.

CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2	sodium carbonate	① Eye Irritation 2A, H319	5–<10%
CAS: 9004-34-6 EINECS: 232-674-9 RTECS: FJ5691460	cellulose		2.5–5%
CAS: 57-11-4 EINECS: 200-313-4 RTECS: WI 2800000	stearic acid, pure		2.5–5%

#### 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air.
- · 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.

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· Most important symptoms and effects, both acute and delayed

breathing difficulty

cramps

sickness

vomiting

· 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.

Hydrogen chloride (HCI)

Nitrogen oxides (NOx)

- 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
- · Advice for non-emergency personnel: Wear protective equipment. Keep unprotected persons away.
- · Advice for emergency responders: Protective equipment: see section 8
- · Environmental precautions: Do not allow product to reach sewage system or any water course.
- Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Pick up mechanically.

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:

The usual precautionary measures for handling chemicals should be followed.

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

Wash hands before breaks and at the end of work.

- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: see chapter 10
- · Further information about storage conditions:

Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed receptacles.

Protect from exposure to the light.

Protect from humidity and water.

This product is hygroscopic.

· Recommended storage temperature: 20°C +/- 5°C (approx. 68°F)

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· 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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

0.10.0001.0	200					
CAS: 9004-34-6 cellulose						
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction					
REL (USA)	SA) Long-term value: 10* 5** mg/m³ *total dust **respirable fraction					
TLV (USA)	Long-term value: 10 mg/m³					
EL (Canada)	ada) Long-term value: 10* 3** mg/m³ *total dust, **respirable fraction					
EV (Canada)	da) Long-term value: 10 mg/m³ paper fibre, total dust					
CAS: 57-11-4 stearic acid, pure						
TLV (USA)	Long-term value: 10* 3** mg/m³ *inhalable, **respirable particulate matter, *A4					
EL (Canada)	Long-term value: 10* 3* mg/m³ *inh;**resp.; except stearates of toxic metal					

- · 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 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

- · 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 properties

Appearance:

Form / Physical state: Tablets
Color: Brown
Odor: Odorless
Odor threshold: Not applicable.

· pH-value (13.1 g/l) at 20°C (68°F):

Melting point/freezing point: Not determined.

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· Initial boiling point and boiling range: Not determined. · Flash point: Not applicable.

• Flammability (solid, gas): The product is not combustible.

· Auto igniting: Not applicable.

Decomposition temperature: Not determined.

• 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 applicable.
Density: Not determined.
Relative density: Not determined.
Vapor density: Not applicable.
Evaporation rate: Not applicable.

Solubility(ies)

· Water: Soluble.

Partition coefficient (n-octanol/water): Not applicable (mixture).
 Viscosity: Not applicable.
 Kinematic: Not applicable (solid).

· Other information

Solids content: 100.0 %

#### 10 Stability and reactivity

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

Reacts with acids, alkalis and oxidizing agents.

--> Forms heat.

Reacts with ammonia (NH<sub>3</sub>).

- · Conditions to avoid To avoid thermal decomposition do not overheat.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: see section 5

#### 11 Toxicological information

· Information on toxicological effects

Inhalative LC50/4h >5.8 mg/l /4h (rat)

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

· Acute toxicity estimate (ATE(mix)) - Calculation method:						
Oral	GHS ATI	GHS ATE <sub>(MIX)</sub> 3502 mg/kg (.)				
Inhalative GHS ATE <sub>(MIX)</sub> 151 mg/l/4h (dust)						
· LD/LC50 values that are relevant for classification:						
CAS: 497-19-8 sodium carbonate						
Oral	LD50	2800 mg/kg (rat) (Registrant, ECHA)				
	LDLo	714 mg/kg (human) (RTECS)				
Dermal	LD50.	>2000 mg/kg (rabbit) (US-EPA) (Registrant, ECHA: No deaths occured at this concentration)				
Inhalative	Inhalative LC50 5750 mg/l/2h (rat) (OECD 403)					
CAS: 9004-34-6 cellulose						
Oral	LD50.	>5000 mg/kg (rat)				
Dermal	LD50.	>2000 mg/kg (rabbit) (RTECS, limit test)				

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CAS: 57-11-4 stearic acid, pure

Oral LD50 >5000 mg/kg (rat) (OECD 401) (Merck)

Dermal LD50 >5000 mg/kg (rabbit) (RTECS)

- · 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: 497-19-8 sodium carbonate						
Irritation of skin	OECD 404	(rabbit: slight irritation)				
Irritation of eyes	OECD 492	(rabbit: irritation) (US-EPA)				
		(IUCLID)				
CAS: 9004-34-6 cellulose						
Irritation of skin	OECD 404	(rabbit: no irritation)				
Irritation of eyes	OECD 492	(rabbit: no irritation)				
	Information on CAS: 497-19-8 s Irritation of skin Irritation of eyes CAS: 9004-34-6 Irritation of skin	Information on component CAS: 497-19-8 sodium carb Irritation of skin Irritation of eyes OECD 492				

· 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)

CAS: 999-99-9 one or more ingredient(s)

Group 3: Not classifiable as to carcinogenicity to humans

### · 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.
- · Information on components:

OECD 414: Teratogenicity testing

OECD 473: Mutagenicity testing

OECD 471, 474, 476, 487: Germ cell mutagenicity testing

#### CAS: 497-19-8 sodium carbonate

OECD 471 (Bacterial Reverse Mutation Test - Ames test) negative / Escherichia coli

#### · 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.

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.

· Other information No further relevant information available.

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### 12 Ecological information

· Toxicity

· Aquatic toxicity:

CAS: 497-19-8 sodium carbonate

EC50 220-227 mg/l/48h (Daphnia magna) (US-EPA)

(Merck)

LC50 300 mg/l/96h (bluegill) (IUCLID)

(Registrant, ECHA)

· Persistence and degradability No further relevant information available.

· Bioaccumulative potential

CAS: 57-11-4 stearic acid, pure

log Pow 8.23 (experimental) (Merck)

- Mobility in soil No further relevant information available.
- · Other adverse effects Avoid transfer into the environment.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

### 14 Transport information

· UN-Number	mana	
· 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.	

Not dangerous according to the above specifications.

#### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Section 355 (Extremely hazardous substances):

None of the ingredients is listed.

· Transport/Additional information:

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

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TSCA (Toxic Substances Control Act): All ingredients are listed.

· Hazardous Air Pollutants

None of the ingredients is 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: 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

H319 Causes serious eye irritation.

· Version number / date of revision: 9 / 04/17/2024

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 2A - Probably Cardinogenic 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

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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
Five Irritation 24: Serious ever damage/eve irritation — Category 2A

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

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

US-