# Lovibond<sup>®</sup> Water Testing

# **Tintometer® Group**



Reviewed on 07/06/2017

# Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 07/06/2017

#### **1** Identification

- · Product identifier
- · Trade name: Urea Pretreat
- · Catalogue number: 00516111, (4)516110BT, (4)516111BT
- · 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 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: none
- · 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.
- · 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 cardiovascular disorders after swallowing of large amounts: sickness vomiting
- · Danger: Danger of disturbed cardiac rhythm.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

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**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)
- Potassium oxide · 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: 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.
- · 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: 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: Store away from oxidizing agents.
- · Further information about storage conditions:
- Protect from heat and direct sunlight.
- Protect from exposure to the light.
- Store in dry conditions.
- 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.

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#### · 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 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: Avoid release to the environment.

#### 9 Physical and chemical properties

· Information on basic physical and che	emical properties	
<ul> <li>Appearance: Form / Physical state: Color:</li> </ul>	Tablets White	
· Odor: · Odor threshold:	Odorless Not applicable.	
· pH-value at 20 °C (68 °F):	5.4	
<ul> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling range:</li> </ul>	770 °C (1418 °F) 1.413 °C (35 °F)	
· Flash point:	Not applicable.	
<ul> <li>Flammability (solid, gas):</li> <li>Ignition temperature:</li> </ul>	The product is not combustible. n.a. °C	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not self-igniting.	
<ul> <li>Danger of explosion:</li> <li>Flammability or explosive limits: Lower:</li> <li>Upper:</li> </ul>	Product does not present an explosion hazard. Not applicable. Not applicable.	
· Oxidizing properties:	none	
<ul> <li>Vapor Pressure:</li> <li>Density at 20 °C (68 °F):</li> </ul>	Not applicable. 1.98 g/cm³ (16.523 lbs/gal)	
<ul> <li>Bulk density at 20 °C (68 °F):</li> <li>Relative density:</li> <li>Vapor density:</li> <li>Evaporation rate:</li> </ul>	~1.1 kg/m <sup>3</sup> Not determined. Not applicable. Not applicable.	
· Solubility(ies) Water at 20 °C (68 °F):	330 g/l Soluble.	
· Partition coefficient (n-octanol/water):	· Partition coefficient (n-octanol/water): Not applicable.	
· Viscosity:	Not applicable.	
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· Solvent content:		
Organic solvents:	0.0 %	
Solids content:	100 %	
· Other information	No further relevant information available.	

#### 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.

Reacts with oxidizing agents.

--> Forms heat.

- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- $\cdot$  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:
- The following statements refer to the individual components.

#### CAS: 7447-40-7 potassium chloride

Oral LD	0 2,600 mg/kg (rat) (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.

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

· 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.

· Information on components:

CAS: 7447-40-7 potassium chloride		
OECD 471 (negative) (Bacterial Reverse Mutation Test - Ames test)		
OECD 476 <5 (negative) (In Vitro Mammalian Cell Gene Mutation Test)		
Higher concentrations appeared to be toxic and mutagenic (Registrant, ECHA).		
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· 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

· Aquati	· Aquatic toxicity:	
CAS: 7447-40-7 potassium chloride		
EC50	660 mg/l/48h (Daphnia magna) (OECD 202) (Registrant, ECHA)	
IC50	2,500 mg/l/72h (Desmodesmus subspicatus) (IUCLID)	
NOEC	500 mg/l (fathhead minnow) (7d; similar OECD 210) (Registrant, ECHA)	
LC50	880 mg/l/96h (fathhead minnow) (OECD 203) (Registrant, ECHA)	
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. Disposal must be made according to official regulations.

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

ransport information	
UN-Number DOT, IMDG, IATA	none
	hone
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.
<ul> <li>Special precautions for user</li> </ul>	Not applicable.
· Transport in bulk according to Annex II of M	ARPOL73/78
and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

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· Safety, health and environmental regulations/legislation specific for the substance or mixture

· 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.

· 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 07/06/2017 / 1

#### 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: hallf maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ACGIH<sup>®</sup> - 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

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(Contd. of page 6) 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 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** 

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