## Lovibond<sup>®</sup> Water Testing

## **Tintometer® Group**



Reviewed on 08/24/2023

## Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 08/24/2023

## **1** Identification

#### · Product identifier

· Trade name: ValidCheck Nitrite

ValidCheck Nitrite 0.1 mg/L NO<sub>2</sub>-N ValidCheck Nitrite 0.4 mg/L NO<sub>2</sub>-N ValidCheck Nitrite 1 mg/l NO<sub>2</sub>-N

- · Catalogue number: 424169233, 424169232, 424169231, 48221225, 48221425, 48221625
- · 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 www.lovibond.us Made in Germany

· Emergency telephone number: + 1 866 928 0789 (English, French, Spanish)

## 2 Hazard(s) identification

 $\cdot$  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.

CAS: 7487-94-7	mercury dichloride	<0.0025%
EINECS: 231-299-8	left Acute Toxicity - Oral 2, H300; 🚸 Germ Cell Mutagenicity 2, H341; Toxic to	
Index number: 080-010-00-X	Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 1, H372;	
RTECS: OV9100000	Skin Corrosion 1B, H314;  Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1,	
	H410 (M=1)	
Additional information. For the wording of the listed beyond phrases refer to eaction 16		

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.
- $\cdot$  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. If symptoms persist, consult a doctor.
- After swallowing:

Rinse out mouth and then drink 1-2 glasses of water.

(Contd. of page 1)

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

Printing date 08/24/2023

#### Trade name: ValidCheck Nitrite

Reviewed on 08/24/2023

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.
- Formation of toxic gases is possible during heating or in case of fire.
- 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. 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 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.

- 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.
- · 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: 5°C 25°C (41°F 77°F)
- · Specific end use(s) No further relevant information available.

(Contd. on page 3)

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

Printing date 08/24/2023

### Trade name: ValidCheck Nitrite

Reviewed on 08/24/2023

(Contd. of page 2)

## 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:** Under normal use conditions according to the instruction manual no personal protective equipment is needed. If exposure limits are exceeded or health impacts are experienced use respiratory protective device against the effects of fume/ dust/aerosol. Not required. 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 Use protective goggles that have been tested and approved in accordance with government standards (like NIOSH). · 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 che	emical properties
Appearance:	
Form / Physical state:	Solution
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not applicable.
pH-value at 20°C (68°F):	~4.9
Melting point/freezing point:	0°C (32°F)
Initial boiling point and boiling range:	
Flash point:	Not applicable.
Flammability (solid, gas):	The product is not combustible.
Auto igniting:	Not applicable.
Decomposition temperature:	Not applicable.
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 determined.
Density at 20°C (68°F):	~1 g/cm³ (~8.35 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.

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

Printing date 08/24/2023

## Trade name: ValidCheck Nitrite

		(Contd. of page 3
· Solubility(ies)		
Water:	Fully miscible.	
· Partition coefficient (n-oct	anol/water): Not applicable (mixture).	
· Viscosity:		
· Kinematic:	Not determined.	
<ul> <li>Other information</li> </ul>		
· Solids content:	< 0.1 %	
<ul> <li>Solvent content:</li> </ul>		
<ul> <li>Organic solvents:</li> </ul>	0 %	
· Water:	> 99.9 %	

## 10 Stability and reactivity

· Reactivity see section "Possibility of hazardous reactions"

· Chemical stability Stable at ambient temperature (room temperature).

- Possibility of hazardous reactions
- Violent reactions possible with:
- The generally known reaction partners of water.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · 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: 7487-94-7 mercury dichloride

Oral LD50 5 mg/kg (ATE)

LDLo 29 mg/kg (human)

· Primary irritant effect:

- · on the skin: Based on available data, the classification criteria are not met.
- $\cdot$  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.

(Contd. of page 3

Reviewed on 08/24/2023

(Contd. of page 4)

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

Printing date 08/24/2023

Reviewed on 08/24/2023

#### Trade name: ValidCheck Nitrite

· 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.

· Other information No further relevant information available.

## 12 Ecological information

#### · Toxicity

Aquatic toxicity:

## CAS: 7487-94-7 mercury dichloride

- EC50 0.002 mg/l/48h (Daphnia magna)
- LC50 0.016 mg/l/96h (rainbow trout) Hg(II)-Ion

#### [1:g(ii) ion

## · Bacterial toxicity:

## CAS: 7487-94-7 mercury dichloride

EC5 0.01 mg/l (Pseudomonas putida) (16h) (Merck, Lit)

### 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 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.

- Disposal recommendation: as waste containing heavy metals (contains very small amounts of heavy metals)
- · 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 · 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.
<ul> <li>Transport in bulk according to Annex II of MARPOL73/ and the IBC Code</li> </ul>	78 Not applicable.
	(Contd. on page

(Contd. of page 5)

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

Printing date 08/24/2023

Reviewed on 08/24/2023

## Trade name: ValidCheck Nitrite

· Transport/Additional information:

Not dangerous according to the above specifications.

## 15 Regulatory information

<ul> <li>Safety, health and environmental regulations/legislation specific for the substance or mixture</li> <li>Sara</li> <li>Section 355 (Extremely hazardous substances):</li> </ul>	ure
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: 7487-94-7 mercury dichloride	
· 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:	
CAS: 7487-94-7 mercury dichloride	
New Jersey Right-to-Know List:	
CAS: 7487-94-7 mercury dichloride	
CAS: 7632-00-0 sodium nitrite	
New Jersey Special Hazardous Substance List:	
CAS: 7487-94-7 mercury dichloride	CA, MU, R1
Pennsylvania Right-to-Know List: CAS 7632-00-0: c < 0.01%	
CAS: 7487-94-7 mercury dichloride	
CAS: 7632-00-0 sodium nitrite	
Pennsylvania Special Hazardous Substance List:	
CAS: 7487-94-7 mercury dichloride	E
CAS: 7632-00-0 sodium nitrite	E
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

H300 Fatal if swallowed.

H314 Causes severe skin burns and eye damage.

H341 Suspected of causing genetic defects.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

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

Printing date 08/24/2023

## Trade name: ValidCheck Nitrite

H400 Very toxic to aquatic life.	(Contd. of page 6)
H410 Very toxic to aquatic life with long lasting effects.	
· Version number / date of revision: 1 / 08/24/2023	
<ul> <li>• Abbreviations and acronyms:</li> <li>STOT: specific target organ toxicity</li> <li>Stat: single exposure</li> <li>RE: repeated exposure</li> <li>RE: repeated exposure</li> <li>RE: repeated exposure</li> <li>RE: single exposure</li> <li>RE: repeated expo</li></ul>	

(Contd. of page 6)

Reviewed on 08/24/2023