

# Material Safety Data Sheet



BIOSCIENCES

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## 1. Identification of substance

### *Product details*

- **Trade name:** Buffer W1A
- **MSDS-No.:** BW1A

## 2. Composition/Data on components

### *Chemical characterization*

- **Description:** Mixture of the substances listed below with non-hazardous additions.
- **Dangerous components:**  
593-84-0 guanidinium thiocyanate 2.5-10%  
64-17-5 ethanol 2.5-10%

## 3. Hazards identification

- **Hazard description:** Irritant, flammable.
- **Information pertaining to particular dangers for man and environment:**  
Irritating to eyes and skin. Flammable.
- **Classification system:** The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0-4):**  
Health = 0  
Fire = 2  
Reactivity = 0
- **WHMIS-ratings (scale 0-4):**  
Health = 0  
Fire = 2  
Reactivity = 0

## 4. First aid measures

- **After inhalation:** Supply fresh air. Consult a physician if symptoms appear/persist.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse affected eye opened for several minutes under running water. Then consult a doctor.
- **After swallowing:** Immediately seek medical advice/assistance.

## 5. Fire fighting measures

### **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Protective equipment:** Do not inhale explosion gases or combustion gases.

## 6. Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## 7. Handling and storage

### *Handling*

- **Information for safe handling:** Keep receptacles tightly sealed.
- **Information about protection against explosions and fires:** Keep ignition sources away-Do not smoke.

### **Storage**

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

### **8. Exposure controls and personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

CAS No. Designation of material % Type Value Unit

64-17-5 ethanol

ACGIH TLV 1000 ppm

A4

NIOSH REL 1900 mg/m<sup>3</sup>, 1000 ppm

OSHA PEL 1900 mg/m<sup>3</sup>, 1000 ppm

Personal protective equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Breathing equipment: Not required.

- **Protection of hands:** Protective gloves
- **Eye protection:** Tightly sealed goggles

### **9. Physical and chemical properties**

- **Form:** Fluid
- **Color:** According to product specification
- **Odor:** Characteristic

#### ***Change in condition***

- **Melting point/melting range:** -114.8.
- **Boiling point/boiling range:** 52.8C, 127.F
- **Flash point:** 21-55°C (70-131°F)
- **Ignition temperature:** Undetermined.
- **Auto-ignition:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.
- **Solubility in water:** Fully soluble.

### **10. Stability and reactivity**

- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions:** Reacts with acids, alkalis and oxidizing agents.
- **Dangerous products of decomposition:** Danger of toxic pyrolysis products.

### **11. Toxicological information**

#### ***Acute toxicity***

#### ***Primary irritant effect***

- **On the skin:** Irritant to skin and mucous membranes.
- **In the eyes:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

### **12. Ecological information**

#### ***General notes***

- **Water Hazard Class 2 (Self-assessment):** Hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

### **13. Disposal considerations**

- **Product recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

#### 14. Transport information

##### *DOT regulations*

- **Hazard class:** --

##### *Land transport ADR/RID (cross-border)*

- **ADR/RID class:** --

##### *Maritime transport IMDG*

- **IMDG Class:** --
- **Marine pollutant:** No

##### *Air transport ICAO-TI and IATA-DGR*

- **ICAO/IATA Class:** -

#### 15. Regulations

**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:** None of the ingredients is listed.
- **Product related hazard information:** The product has been classified and marked in accordance with directives on hazardous materials
- **Risk phrases:** Flammable.

##### *National regulations*

- **Technical instructions (air):**

Class Share in %

III 2.5-10

##### *Water hazard class*

- **Water Hazard Class 2 (Self-assessment):** Hazardous for water.

#### 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.