

## Material Safety Data Sheet



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### 1. Identification of substance

#### *Product details*

- **Trade name:** Buffer W1
- **MSDS No.:** BW1

### 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. Consult a physician.
- **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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored 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:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.
- **Flash point:** 21-55°C (70-131°F)
- **Ignition temperature:** 425°C (797°F)
- **Auto-ignition:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.

- **Density at 20°C (68°F):** 1.064 g/cm<sup>3</sup>
- **Solubility in water:** Fully soluble.
- **pH value at 20°C (68°F):** 7.5

#### 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 packagings 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

#### 15. Regulations

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

##### *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.