



## 4. FIRST AID MEASURES

### First aid measures

#### **Eye Contact**

Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye(s). If eye irritation persists: Get medical advice/attention.

#### **Skin Contact**

Wash off immediately with soap and plenty of water. Rinse/flush exposed skin gently using water for 15-20 minutes. Get medical attention.

#### **Inhalation**

Remove to fresh air. Administer oxygen if breathing is difficult. Call a physician if necessary.

#### **Ingestion**

Do NOT induce vomiting. Rinse mouth thoroughly. Have exposed individual drink sips of water.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects**

Irritation. Nausea. Headache. Shortness of breath. Coughing.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians:** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Dry Chemical. Water spray, Carbon dioxide (CO2), Foam.

**Unsuitable Extinguishing Media**

No Information available.

**Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous combustion products:**

No information available.

**Protective equipment and precautions for firefighters**

For emergency responders, personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas. Transfer to a dioposal. Isolate area. Keep unnecessary personnel away.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions,  
Protective Equipment and  
Emergency Procedures**

If necessary use trained response staff or contractor. Wear protective eyeware, gloves, and clothing. Refer to Section 8. Clean up spills immediately observing precautions. Always obey local regulations. Ensure adequate ventilation.

**Methods and material for containment and cleaning up**

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containment and cleaning up**

If necessary use trained response staff or contractor. Wear protective eyeware, gloves, and clothing. Refer to Section 8. Clean up spills immediately observing precautions. Always obey local regulations.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling**

Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Absorb spillage to prevent material damage. If in a laboratory setting, follow Chemical Hygiene Plan. Provide ventilation for containers. Store away from foodstuffs. Store away from oxidizing agents. Store with like hazards. Store in cool, dry conditions.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Appropriate engineering controls**

**Engineering Controls**

Showers, eyewash stations, ventilation system.

**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and Body Protection</b>	Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
<b>Respiratory Protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>Hygiene Measures</b>	Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not Eat, Drink or Smoke when using this product. Do not inhale gases/fumes/dust/mist/vapor/aerosols.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

<b>Formula</b>	See Section 3		
<b>Physical State</b>	Liquid		
<b>Appearance</b>	Aqueous solution	<b>Odor</b>	Odorless
<b>Color</b>	Clear	<b>Odor Threshold</b>	No information available
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/ Method</u></b>	
<b>pH</b>	Not determined.		
<b>Melting/freezing point</b>	Approximately 0°C	None known	

<b>Boiling point / boiling range</b>	Approximately 100°C	None known
<b>Flash Point</b>	No information available.	N/A
<b>Evaporation rate</b>	<1	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No data available	None known
<b>Lower flammability limit</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	>1	None known
<b>Specific Gravity</b>	2.04 g/cc	None known
<b>Water Solubility</b>	Soluble in water.	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient:</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known

## 10. STABILITY AND REACTIVITY

### Reactivity

None under normal processing.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Incompatible materials.

### Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases. Copper. Aluminum. Metals.

### Hazardous Decomposition Products

Nitrogen oxides (NO<sub>x</sub>), sodium oxides. Carbon oxides (CO, CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Component Information

Acute Toxicity	Oral LD50	Dermal LD50	Inhalation LC50
Disodium Anhydrous 6381-92-6	= 2000 mg/kg (Rat)	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No additional Information
Germ cell mutagenicity	No additional Information
Carcinogenicity	No additional Information
Reproductive toxicity	No additional Information
STOT single exposure	No additional Information
STOT repeated exposure	No additional Information
Aspiration Hazard	No additional Information

## 12. Ecological Data

### Ecotoxicity

None.

### Persistence and Degradability

Readily Biodegradable.

### Bioaccumulation

Not bioaccumulative.

### Mobility

None.

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

#### **Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated packaging**

Dispose of in accordance with federal, state and local regulations.

## 14. TRANSPORT INFORMATION

### DOT

Not Regulated by US DOT

## 15. REGULATORY INFORMATION

### **Chemical Inventories**

**TSCA** Complies

**DSL/NDSL** Complies

**EINECS/EIINCS** No information available

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization of 1986 (SARA). This product does not contain any chemicals, which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

#### **CWA (Clean Water Act)**

This product does not contain any substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

