

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

**Methods and material for
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

Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Respiratory Protection	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.
Hygiene Measures	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

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

Boiling point / boiling range	Approximately 100°C	None known
Flash Point	No information available.	N/A
Evaporation rate	<1	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	>1	None known
Specific Gravity	2.04 g/cc	None known
Water Solubility	Soluble in water.	None known
Solubility in other solvents	No data available	None known
Partition coefficient:	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	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 (NOx), sodium oxides. Carbon oxides (CO, CO2).

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

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	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)

