

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 CFR122.42)

