

Safety Data Sheet

Section 1: Identification

Product Name:

Inweld Chem Sharp

Manufacturer:

Inweld Corporation

3962 Portland St

Coplay, PA 18037

UNITED STATES

Manufacturer Phone:

(800) 346-5368

Emergency Phone Number:

(800) 424-9300 (Chemtrec)

Recommended Use:

Welding or metalworking processes

Restrictions on Use:

Use only as directed by welding procedure.

Section 2: Hazard(s) Identification

Classification (GHS):

- Acute toxicity, Oral (Category 3)
- Acute toxicity, Inhalation (Category 3)
- Acute toxicity, Dermal (Category 3)
- Oxidizing solid (Category 2)
- Specific target organ toxicity – single exposure (Category 1)
- Skin corrosion/irritation (Category 1B)
- Serious eye damage/eye irritation (Category 1)

Signal Word:

DANGER

Hazard Statements:

- H301: Toxic if swallowed
- H311: Toxic in contact with skin
- H331: Toxic if inhaled
- H272: May intensify fire; oxidizer
- H370: Causes damage to organs
- H314: Causes severe skin burns and eye damage
- H318: Causes serious eye damage

Precautionary Statements:

- P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P220: Keep/Store away from clothing/combustible materials.
- P260: Do not breathe dust/fume/gas/mist/vapors/spray.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P405: Store locked up.

GHS Pictograms:

Section 3: Composition/Information on Ingredients

Chemical Name CAS Number Concentration (wt%)

Sodium nitrite 7632-00-0 >75%

Section 4: First-Aid Measures

Inhalation:

Move person to fresh air immediately. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

Skin Contact:

Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention immediately.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.

Ingestion:

Do NOT induce vomiting. Rinse mouth with water. Immediately call a poison control center or doctor for treatment advice.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable Extinguishing Media:

Do not use direct water jet.

Specific Hazards Arising from the Chemical:

Oxidizer. May intensify fire; contact with combustibles may cause fire or explosion.

Protective Equipment and Precautions for Firefighters:

Wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

Personal Precautions:

Avoid dust formation. Avoid breathing dust. Use personal protective equipment.

Environmental Precautions:

Prevent material from entering drains, waterways, or soil.

Methods for Cleanup:

Sweep up and shovel into suitable containers for disposal. Avoid generating dust.

Section 7: Handling and Storage

Handling:

Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

Storage:

Store in a cool, dry, well-ventilated place away from incompatible materials such as strong acids, reducing agents, and combustibles. Keep container tightly closed and locked up.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

- No established OSHA PEL for sodium nitrite. Use general dust limits if applicable.

Engineering Controls:

Use local exhaust ventilation to maintain airborne concentrations below exposure limits.

Personal Protective Equipment:

- **Respiratory Protection:** NIOSH-approved respirator if exposure limits exceeded or ventilation is inadequate.
- **Skin Protection:** Protective gloves (e.g., nitrile).
- **Eye Protection:** Safety goggles or face shield.
- **Other:** Protective clothing as necessary.

Section 9: Physical and Chemical Properties

Property	Value
Appearance	White to pale yellow crystalline powder
Odor	Odorless
Odor Threshold	Not available
pH	8–10 (in aqueous solution)
Melting Point/Freezing Point	271 °C (decomposes)
Boiling Point	Decomposes before boiling
Flash Point	Not applicable (inorganic salt)
Evaporation Rate	Not applicable
Flammability (solid, gas)	Oxidizer - may intensify fire
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	2.2 g/cm ³
Solubility	Soluble in water
Partition Coefficient (n-octanol/water)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	>271 °C
Viscosity	Not applicable

Section 10: Stability and Reactivity

Reactivity:

Strong oxidizer. Can react violently with reducing agents and combustibles.

Chemical Stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions:

May react violently with acids, reducing agents, and combustibles.

Conditions to Avoid:

Heat, flames, sparks, moisture, incompatible materials.

Incompatible Materials:

Strong acids, strong reducing agents, combustible materials.

Hazardous Decomposition Products:

Nitrogen oxides, sodium oxides.

Section 11: Toxicological Information

Acute Toxicity:

- Oral LD50 (rat): 85 mg/kg (Sodium nitrite)
- Dermal LD50: Not available
- Inhalation LC50: Not available

Skin Corrosion/Irritation:

Causes severe burns.

Serious Eye Damage/Eye Irritation:

Causes serious eye damage.

Respiratory or Skin Sensitization:

Not classified.

Germ Cell Mutagenicity:

No data available.

Carcinogenicity:

Not listed as a carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity:

No data available.

STOT – Single Exposure:

Causes damage to organs (blood, cardiovascular system).

STOT – Repeated Exposure:

No data available.

Aspiration Hazard:

Not applicable.

Section 12: Ecological Information

Ecotoxicity:

Toxic to aquatic life.

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

Not expected to bioaccumulate.

Mobility in Soil:

Soluble in water; expected to be mobile.

Section 13: Disposal Considerations

Dispose of in accordance with local, regional, national, and international regulations. Do not dispose of in drains or waterways.

Section 14: Transport Information

UN Number:

UN1500

UN Proper Shipping Name:

Sodium nitrite

Transport Hazard Class(es):

5.1 (Oxidizing substances)

Packing Group:

II

Environmental Hazards:

Yes, hazardous to the environment.

Special Precautions:

Avoid shock, friction, and contamination with combustible materials.

Section 15: Regulatory Information

- **OSHA Hazard Communication Standard:** This product is classified as hazardous.
- **EPA:** Listed as hazardous waste when discarded.
- **SARA 313:** Sodium nitrite is subject to reporting requirements.

Section 16: Other Information

Preparation Date: July 2, 2025

Revision: 1.0

Disclaimer:

The information contained herein is based on the present state of our knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.