

Section 1: Product and Company Identification

Product Identifier: **Chemical Sharpener for Tungsten Points**
Product Use: Chemically sharpens tungsten electrodes
Item Code: CS
Supplier Name: Powerweld Inc.
Supplier Address: 2501 Beech Street
Valparaiso, IN 46383
Supplier Web Address: www.powerweldinc.com
Supplier Phone: 219-462-8700
1-800-826-9073
Manufacturer: KCI, Inc.
Manufacturer Address: 3401 Reno Avenue
Charlotte, NC 28221
Manufacturer Web Address: www.kciincorporated.com
Manufacturer Phone: 704-372-8435
Emergency Phone: CHEMTREC (24-hour) 1-800-424-9300
Prepared By: Powerweld Inc.
Preparation Date: 1 January 2026
OSHA Regulatory Status: Hazardous
WHMIS Classification: C, D1B, D2B

Section 2: Hazard Identification

Classification: 5.1

Symbols:



Signal Word: DANGER!

Hazard Statements:

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary Statements:

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+ IF IN EYES: Rinse cautiously with water for several

P351+ minutes. Remove contact lenses, if present and easy to do.

P338 Continue Rinsing

P337+ IF EYE IRRITATION PERSISTS: Get medical advice/

P313 attention.

P302+ IF ON SKIN:
 P352 Wash with plenty of soap and water.
 P332+ IF SKIN IRRITATION OCCURS: Get medical advice/
 P313 attention.
 P362 Take off contaminated clothing and wash before reuse.
 P304+ IF INHALED: Remove to fresh air and keep at rest in a
 P340 position comfortable for breathing.

Section 3: Composition/Information on Hazardous Ingredients

HAZARDOUS INGREDIENTS	CAS NUMBER	APPROXIMATE CONCENTRATION (%)
Sodium Nitrate (NaNO ₂)	7632-00-0	>98

Section 4: First-aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.

Ingestion: Do not induce vomiting! Immediately drink large quantities of water to dilute. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Eye Contact: Immediately flush with plenty of clean water for at least 15 minutes. Make sure to flush under the eyelids. Consult a physician for definitive treatment.

Skin Contact: Remove with soap and water. Continue flushing with water for several minutes. Use skin cream to counter resulting dryness. Consult a physician if irritation continues or if large skin area is affected.

Symptoms: Sodium Nitrite forms methemoglobin in the blood stream and should be treated accordingly.

NOTE: In all severe cases, contact physician immediately. Local telephone operators can provide number of regional poison control centre.

Section 5: Fire-fighting Measures

Flammable: Not flammable

Means of Extinction: Use flooding amounts of water or other agents; DO NOT use dry chemicals containing ammonium phosphate.

Auto-ignition Temperature: Not applicable

Hazardous Combustion Products: Not available

Explosion Data Sensitivity to Mechanical Impact: Not available

Explosion Data Sensitivity to Static Discharge: Not available

Special Equipment: Wear self-contained breathing apparatus.

Precautions for Fire Fighters:

Material does not burn but is an oxidizing agent and will support combustion of other materials. Product decomposes above 608°F releasing toxic nitrogen oxides.

Section 6: Accidental Release Measures

Protective Equipment:

See Section 8.

Emergency Procedures:

Remove sources of ignition. Ventilate area. Use non-sparking tools and equipment. Sweep or shovel spilled material into containers.

Leak or Spill Procedure:

Dispose of material according to local, regional and federal regulations. Do not allow product or residues to enter waterways and/or any source of drinking water.

Section 7: Handling and Storage

Handling Procedures and Equipment:

Avoid contact with skin and eyes. Do not breathe product dusts. Avoid contact with incompatible, combustible, organic or readily oxidizable materials.

Storage Requirements:

Store in a cool, dry, well-ventilated area. Keep containers tightly closed. Do not store on wooden floors. Isolate from combustible materials. Empty containers may contain product residues. Observe all warnings and precautions listed for the product.

Incompatibilities:

Acids, ammonium compounds and reducing agents (particularly cyanides, thiocyanates and thiosulfates).

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

HAZARDOUS INGREDIENTS	CAS NUMBER	TWA (mg/m ³)
Sodium Nitrate (NaNO ₂)	7632-00-0	2

Engineering Controls:

Use local exhaust to keep airborne concentrations below the permissible exposure limits listed above.

Personal Protective Equipment:

Eye/Face Protection: Wear chemical safety goggles. Do not wear contact lenses.

Skin Protection: Wear appropriate personal protective clothing to prevent skin contact.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/regional requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

General Hygiene Consideration: To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29 CFR 1910.132) be conducted before using this product. Eyewash and safety showers are recommended.

Section 9: Physical and Chemical Properties

<i>Physical State:</i>	Solid
<i>Odour and Appearance:</i>	Odourless, white to slightly yellow crystals
<i>Odour Threshold (ppm):</i>	Not available
<i>pH:</i>	~ 9.0 (for aqueous solution)
<i>Melting Point:</i>	520°F
<i>Freezing Point:</i>	Not available
<i>Boiling Point:</i>	Decomposes above 608°F
<i>Flashpoint:</i>	Not flammable
<i>Upper Flammable Limit (% by volume):</i>	Not available
<i>Lower Flammable Limit (% by volume):</i>	Not available

Section 10: Stability and Reactivity

<i>Chemical Stability:</i>	Stable
<i>Possible Hazardous Reactions:</i>	Will not occur
<i>Conditions to Avoid:</i>	Material slowly oxidizes to sodium nitrite when exposed to air. Avoid heat, flame, ignition sources, shock, friction and incompatibilities.
<i>Materials to Avoid (Incompatibilities):</i>	Acids, ammonium compounds and reducing agents (particularly cyanides, thiocyanates and thiosulfates). May ignite organic compounds and other combustible materials.
<i>Conditions of Reactivity:</i>	Not applicable
<i>Hazardous Decomposition By-Products:</i>	Oxides of nitrogen (toxic and irritating)
<i>Hazardous Polymerization:</i>	Will not occur

Section 11: Toxicological Information

<i>Skin Contact:</i>	May cause irritation.
<i>Skin Absorption:</i>	Not available
<i>Eye Contact:</i>	May strongly irritate or burn eyes.
<i>Inhalation:</i>	Product mists may cause irritation to the respiratory tract.
<i>Ingestion:</i>	May irritate the gastrointestinal tract. Although small quantities are used in food preparation, swallowing moderate amounts of sodium nitrite can result in serious toxic effects including death. Effects include nausea, weakness, cyanosis (blue skin), collapse and coma, possibly leading to death. Sodium nitrite interferes with the blood's ability to transport oxygen.
<i>Effects of Acute Exposure:</i>	Not available
<i>Effects of Chronic Exposure:</i>	Multiple reproductive tests indicate that sodium nitrite is not teratogenic.
<i>Irritancy of Product:</i>	Not available
<i>Sensitization to Product:</i>	Not available
<i>Carcinogenicity:</i>	There are no known carcinogenic chemicals in this product.
<i>Reproductive Effects:</i>	Fetal toxicity has been demonstrated in pregnant animals fed toxic doses of sodium nitrite. This is due to the formation of methemoglobin.
<i>Respiratory Sensitization:</i>	Not available

Toxicological Data: Oral, rat – 88 mg/kg (LD50); Inhalation, rat – 5.5 mg/m³ (LC50)

Section 12: Ecological Information

Aquatic and Terrestrial Toxicity: Not available
Persistence and Degradability: Not available
Bioaccumulative Potential: Not available
Soil Mobility: Not available

Section 13: Disposal Considerations

NOTE: Always dispose of waste in accordance with local, regional and federal regulations.

Methods of Disposal: Empty containers should be taken for local recycling, recovery or waste disposal. Dispose of waste in accordance with all federal, regional and local regulations.

Section 14: Transportation Information

UN Identification Number: UN1500
Proper Shipping Name: Sodium Nitrate
Hazardous Class or Division: 5.1, 6.1
Packing Group: PG III

Section 15: Regulatory Information

California Proposition 65: This product does not contain any Proposition 65 chemicals.
Massachusetts Right to Know:
 Information: Sodium Nitrate
New Jersey Right to Know Information Sodium Nitrate
Pennsylvania Right to Know:
 Information: Sodium Nitrate
Canada Controlled Products
 Regulations: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Section 16: Other Information

Preparation Date: 25 February 2016
Date of Last Revision: 1 January 2026

This SDS format is in accordance with GHS. Powerweld Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Powerweld. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.