



North Metal and Chemical Company

## 1. Company Identification and Product Hazard Overview:

**Product Name:** Sodium Nitrite 40%, NorthQuest 8940

**Recommended Use:** Dye manufacturing, corrosion inhibition, antioxidants for synthetic polymers, heat transferring agents, stabilizers, surface active agents.

**Manufactured by:** **NORTH Metal and Chemical Company**  
P. O. Box 1985  
York, PA USA 17405  
Tel: 717-845-8646  
Email: north@northmetal.net

609 E. King St.  
York, PA USA 17403  
Fax: 717-846-7350  
Website: www.northmetal.net

**In Case of Emergency Call CHEMTREC (24 Hours): 1-800-424-9300**

## 2. Hazard Identification:

**GHS Classification:** Acute Oral Toxicity (Category 3)  
Eye Irritation (Category 2A)  
Hazardous to the Aquatic Environment—Acute Hazard (Category 1)

**Signal Word: DANGER**

**Pictogram:**



**Hazard Statement(s):**

**H301** : Toxic if swallowed  
**H319** : Causes serious eye irritation  
**H400** : Very toxic to aquatic life

**Precautionary Statement(s):**

**Prevention:**

**P264** : Wash all affected body parts thoroughly after handling.  
**P270** : Do not eat, drink, or smoke when using this product.  
**P273** : Avoid release to the environment  
**P280** : Wear protective gloves and face protection

**Response:**

**P301 + P312+**  
**P330** : IF SWALLOWED: Call a poison center/doctor. Rinse Mouth.  
**P305 + P351 +**  
**P338** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P337 + P313** : If eye irritation persists: Get medical advice/attention.  
**P319** : Collect spillage  
**P405** : Store locked up

**Disposal**

**P501** : Dispose of contents and container to an approved waste disposal plant

### 3. Composition/Information on Ingredient:

Common Name: Sodium Nitrite Solution

Substance:	CAS Number:	Composition(%)
Sodium Nitrite	7632-00-0	40 - 45
Water	7732-18-5	60 - 55

### 4. First Aid Measures:

**General recommendation** : Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended

**Eyes** : Immediately flush eyes with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**Skin** : If on skin, rinse well with water. If on clothes, remove clothes.

**Ingestion** : Do not induce vomiting . Rinse mouth. Immediately call a poison center or doctor. Ingestion may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by navy lips, tongue, and mucous membranes, with skin color being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress, stupor, respiratory distress, and death due to anoxia. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting, and possibly shock.

**Inhalation** : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician

**PPE for first responders** : Gloves, safety goggles, boots and dust/vapor respirator.

### 5. Fire Fighting Measures:

**General Hazard (s)** : Evacuate personnel downwind in-order to avoid inhalation of irritating and/or harmful fumes and smoke.

**Extinguishing Media** : water spray, fog. DO NOT USE carbon dioxide or ABC dry chemical agents. DO NOT USE a heavy water stream. Use of heavy stream of water may spread fire.

**Specific hazards during firefighting** : Do not allow run-off from fire fighting to enter drains or water courses.

**Fire Fighting Procedures** : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

**Fire Fighting Equipment** : Wear self-contained breathing apparatus for firefighting if necessary.

### 6. Accidental Release Measures:

**Personal precautions, protective equipment, emergency procedures.** : Use Personal Protective Equipment

**Environmental precautions** : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains, inform respective authorities.

**Methods and materials for containment and cleaning up** : Contain spillage, and then collect with non-combustible absorbent material (sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national authorities.

## 7. Handling and Storage:

- Warning:** Keep away from combustible material.
- Handling** : Do not breathe vapors or dust. Avoid contact with skin and eyes. Smoking, eating, and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
- Storage** : Keep container tightly closed in a dry and well ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations and working materials must comply with the technological safety standards.

## 8. Exposure Controls and Personal Protection:

### Personal Protective Equipment:

- Eyes** : Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.
- Skin and Body** : Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory** : No personal respiratory protective equipment normally required. In the case of vapor formation, use a respirator with an approved filter.
- Hygienic Practices** : When using, do not eat or drink. When using, do not smoke. Wash hands before breaks and at the end of the workday.

## 9. Chemical and Physical Properties:

<b>Appearance</b>	: Liquid	<b>Vapor Pressure</b>	: No data available
<b>Odor</b>	: Odorless	<b>Vapor Density</b>	: Not available
<b>Odor threshold</b>	: Not available	<b>Specific Gravity</b>	: 1.29-1.33
<b>Color</b>	: Clear, colorless to slightly yellow	<b>Bulk Density</b>	: 12.228 lb./gal
<b>pH - neat</b>	: 8.5 - 10.5 @20°C	<b>Solubility</b>	: Not applicable
<b>Melting Point</b>	: No data available	<b>Partition Coefficient</b>	
<b>Freezing Point</b>	: Not available	<b>n-octanol/water</b>	: Not available
<b>Boiling Range</b>	: No data available	<b>Molecular Wt. (g/mol)</b>	: Not available
<b>Flash Point</b>	: No data available	<b>Auto Ignition Temp.</b>	: Not available
<b>Evaporation Rate</b>	: Not available	<b>Viscosity</b>	: Not available

## 10. Stability and Reactivity:

- Reactivity** : No dangerous reaction known under conditions of normal use.
- Chemical Stability** : Stable under normal conditions.
- Possibility of hazardous reactions** : No decomposition if stored and applied as directed.
- Conditions to avoid** : Extremely high or low temperatures. Incompatible materials
- Incompatible Materials** : Strong acids, strong bases, strong oxidizers

## 11. Toxicological Information:

### Acute Toxicity:

#### Product:

Acute Oral Toxicity : Toxic if swallowed. Acute toxicity estimate: 360mg/kg

#### Components:

**7632-00-0:** Acute Oral Toxicity : LD50 (Rat): 85mg/kg  
Assessment: The component/mixture is toxic after single ingestion

### Serious Eye Damage/Eye Irritation:

#### Components:

**7632-00-0:** Eye Irritation : Rabbit, 24H  
Assessment: Irritating to eyes.

### Carcinogenicity:

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

**OSHA:** No component of this product present at levels greater than 0.1% is on OSHA's list of regulated carcinogens.

**NTP:** No component of this product present at levels greater than 0.1% is identified as a known or anticipated carcinogen by NTP.

## 12. Ecological Information:

### Ecotoxicity

#### Components:

##### **7632-00-0**

Toxicity to fish : LC50 (Oncorhynchus mykiss (Rainbow Trout)): 0.19 mg/l  
Exposure Time: 96h  
Test Type: flow-through test

M-Factor (acute aquatic toxicity) : 1

Acute aquatic toxicity assessment : Very toxic to aquatic life

### Persistence and Biodegradability

Readily biodegradable in water

### Bioaccumulative potential

Log Pow: -3.7 (at 25°C)

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

### 13. Disposal Considerations:

#### Disposal Methods:

Waste from Residues : Dispose of in accordance with all applicable local, state, and federal regulations.

Contaminated Packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on the empty container.

### 14. Transport Information:

Regulatory Information	UN No.	Proper Shipping Name	Hazard Class	Packing Group
US DOT	3287	Toxic Liquid, Inorganic, N.O.S., Sodium Nitrite	6.1	III
IMDG	3287	Sodium Nitrite	6.1	III
IATA	3287	Sodium Nitrite	6.1	III

### 15. Regulatory Information:

#### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS	Component RQ (lbs.)	Calculated Product RQ (lbs.)
Sodium Nitrite	7632-00-0	100	200

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Serious eye damage or eye irritation  
Acute toxicity (any route of exposure)

**Massachusetts Right to Know** : Components are subject to the Massachusetts Right to Know Act

**California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### The components of this product are reported in the following inventories:

TSCA - On TSCA Inventory

DSL - All components of this product are on the Canadian DSL

AICS - On the inventory, or in compliance with the inventory

NZIoC - Not in compliance with the inventory

ENCS - On the inventory, or in compliance with the inventory.

KECI - On the inventory, or in compliance with the inventory.

PICCS - On the inventory, or in compliance with the inventory.

IECSC - On the inventory, or in compliance with the inventory.

## 16. Other Information:

### NFPA Rating:\*



RATING	HEALTH	FIRE HAZARD	REACTIVITY
0	Minimal Hazard	Will not burn	Normally Stable
1	Can cause significant irritation	Must be preheated to burn	Unstable at high temperatures
2	Can cause temporary incapacitation or residual injury	Ignites when moderately heated	Normally unstable. Can readily go under violent chemical reaction but do not detonate.
3	Can cause permanent injury.	Ignition occurs at normal temperature	Capable of detonation, or of explosive reaction, but requires a strong ignition source.
4	Can be lethal.	Extremely flammable	May explode at normal temperatures and pressures

### HMIS Rating:\*

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

RATING	HEALTH	FIRE HAZARD	PHYSICAL HAZARD
0	No significant risk to health	Will not burn	Product stable under ambient temperature and condition.
1	Can cause irritation or minor reversible injury.	Must be preheated to burn	Product can become unstable at high temperatures and pressures.
2	Can cause temporary or residual injury	Ignites when moderately heated	Product can become unstable and cause violent chemical reaction at normal pressures and temperatures
3	Can cause serious injury	Ignition occurs at normal temperature	Product capable of forming explosive mixtures and is capable of detonation in presence of strong initiating source.
4	Can be lethal from single or repeated exposure.	Extremely flammable	Product is highly explosive and unstable. Exothermic reactions possible with decomposition, polymerization, reaction with water or self reaction

**Personal Protection B - Gloves + Safety Goggles**

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