



North Metal and Chemical Company

### 1. Company Identification and Product Hazard Overview:

**Product Name:** Sodium Tungstate Solution

**Synonyms:** Tungstic Acid Sodium Salt, Disodium Wolframate

**Recommended Use:** Used as a source of soluble tungsten for corrosion and fire inhibition, catalysts, ceramics, and light-fast colors and inks.

**Manufactured for:** **NORTH Metal and Chemical Company**  
P. O. Box 1985  
York, PA USA 17405  
Tel: 717-845-8646  
Email: north@nmc-nic.com

609 E. King St.  
York, PA USA 17403  
Fax: 717-846-7350  
Website: www.nmc-nic.com

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

### 2. Hazard Identification:

**GHS Classification:**  
Acute Toxicity, Dust Inhalation (Category 4)  
Acute Toxicity, Oral (Category 4)  
Eye Irritation (Category 2B)  
Acute Toxicity, Dermal (Category 5)

**Signal Word:** WARNING  
**Pictogram:** Acute Toxicity



#### Hazard Statements:

**H302** : Harmful if inhaled  
**H332** : Harmful if swallowed  
**H312** : Harmful in contact with skin  
**H320** : Causes eye irritation

#### Precautionary Statements:

**P261** : Avoid breathing dust.  
**P264** : Wash skin thoroughly after handling  
**P270** : Do not eat, drink, or smoke when using this product  
**P271** : Use only outdoors or in a well-ventilated area  
**P304+P340** : IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
**P304+P312** : IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell  
**P301+P312** : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
**P302+P352** : IF ON SKIN, wash with plenty of soap and water  
**P302+P312** : IF ON SKIN, Call a POISON CENTER or doctor/physician if you feel unwell  
**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  
**P330** : Rinse Mouth  
**P501** : Dispose of contents/container to an approved waste disposal plant

### 3. Composition/Information on Ingredient:

**Common Name:** Sodium Tungstate Solution  
**CAS Number:** 10213-10-2 (alternate CAS No. 13472-45-2)  
**Chemical Formula:** 38% as Na<sub>2</sub>WO<sub>4</sub>  
**EC Number:** 236-743-4

Substance:	CAS Number:	EC	Compo. (%)
Sodium Tungstate	13472-45-2	236-743-4	~ 38%
Water			~ 62%

### 4. First Aid Measures:

**General recommendation:** If victim is unconscious, get medical attention immediately. Place the unconscious victim in recovery position and maintain an open airway. Loosen tight clothing.

**Eyes** : Flush skin with running water for at least 15 minutes, periodically lifting upper and lower lids. Remove any contact lenses if safe to do so and while rinsing. Get medical attention immediately.

**Skin** : Wash skin with plenty of running water. Remove contaminated clothing. Get medical attention if needed. Clean and dry contaminated clothing thoroughly before reuse.

**Ingestion** : If the product is swallowed, call doctor/physician and get medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Inhalation** : If safe to do so, remove individual from further exposure. Keep warm and at rest. If breathing has stopped give artificial respiration. Get medical attention/consult a physician.

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

### 5. Fire Fighting Measures:

**Fire/Explosion Hazard** : Negligible fire hazard when exposed to flame.

**Extinguishing Media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

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

#### Special Hazards arising

**From the substance** : Sodium oxides, Tungsten oxide

**Fire Fighting Procedures:** This product is a non-flammable substance. No acute hazard.

**Fire Fighting Equipment:** Full protective equipment (bunker gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. If possible, firefighters should control run-off water to prevent environmental contamination.

### 6. Accidental Release Measures:

**Protective Gear for Personnel** : Gloves and dust mask. Ensure adequate ventilation.

**Spill Clean-up Procedures** : Sweep up and dispose according to state, federal, and local non-hazardous waste laws and regulations. Do not let waste enter the environment.

**Environmental Precaution** : Do not allow to enter sewers or ground water, or penetrate the soil.

### 7. Handling and Storage:

**Handling** : Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Wash hands thoroughly with soap and water after use. Remove contaminated clothing and protective equipment before entering eating areas. Avoid formation of dust and aerosols.

**Storage** : Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Observe all federal, state and local regulations when storing or disposing of this substance.

## 8. Exposure Controls and Personal Protection:

<b>Exposure Limits</b>	: Sodium Tungstate
ACGIH	1 mg/m <sup>3</sup> TWA (Time Weighted Average)
	5 mg/m <sup>3</sup> TWA
	3 mg/m <sup>3</sup> STEL (Short Term Exposure Limit)
	10 mg/m <sup>3</sup> STEL
NISOH/GUIDE	5 mg/m <sup>3</sup> REL (Recommended Exposure Limit)
	3 mg/m <sup>3</sup> STEL
	10 mg/m <sup>3</sup> STEL
	1 mg/m <sup>3</sup> REL
Z1A	1 mg/m <sup>3</sup> TWA
	5 mg/m <sup>3</sup> TWA
	3 mg/m <sup>3</sup> STEL
	10 mg/m <sup>3</sup> STEL

**Exposure Controls** : **Sodium Tungstate is not classified as a hazardous substance.** High airborne dust concentrations require mechanical ventilation or a respirator mask.

**Engineering Controls** : Use appropriate engineering controls to minimize exposure to dust generated via routine use. Maintain adequate ventilation of workplace and storage areas.

**Personal Protective Equipment** : **Eyes and face:** Wear safety glasses with side shields or goggles when handling this material.  
**Skin:** Wear protective clothing and gloves when handling this product to prevent prolonged skin contact.  
**Respiratory:** Avoid breathing dust or mist. Use NIOSH approved respiratory protection equipment when air borne exposure is excessive.

**Work Hygienic Practices** : Facilities storing or using this material should be equipped with emergency eyewash, and a safety shower. Good personal hygiene practices should always be followed.

## 9. Chemical and Physical Properties:

<b>Appearance/Color</b>	: Clear solution	<b>Melting Point</b>	: 100°C elimination of water of crystallization
<b>Odor</b>	: Odorless		
<b>Odor threshold</b>	: Not applicable		: 698°C anhydrous substance
<b>Flash Point</b>	: Not applicable	<b>Freezing Point</b>	: Not Available
<b>Evaporation Rate</b>	: Not applicable at ambient conditions	<b>Boiling Range</b>	: Not applicable
<b>Lower Explosive Limit</b>	: Not explosive	<b>Molecular Weight</b>	: 329.86 g/mole
<b>Upper Explosive Limit</b>	: Not explosive	<b>Flammability</b>	: Not flammable
<b>Auto-ignition Temp</b>	: Not applicable	<b>Relative Density</b>	: 1.45 - 1.55 g/cm <sup>3</sup> at 20 °C
<b>Decomposition Temp</b>	: Not available		
<b>Vapor Pressure</b>	: Negligible		
<b>Vapor Density</b>	: Not applicable		
<b>Partition Coefficient</b>	: Not applicable		
<b>Solubility</b>	: Soluble in water (730g/l at 20 °C)		
<b>pH (neat)</b>	: 8.0 - 13.0		

## 10. Stability and Reactivity:

**Stability** : The product is stable under normal ambient conditions of temperature and pressure.

### Hazardous

**Decomposition Products** : None identified.

**Incompatible Materials** : Strong oxidizing agents

**Conditions to Avoid** : Avoid exposure to extreme temperatures.

## 11. Toxicological Information:

**Toxicity Data** : LD50oral, rat 1,453 mg/kg

LC50 inhalation, rat, 4 h - > 5,010mg/m<sup>3</sup>

LDLO Dermal, rat, > 2,000 mg/kg

LD50 Intraperitoneal, rat, 204 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Coma

LD50 Subcutaneous, rat, 251 mg/kg

LD50 Intraperitoneal, mouse, 145 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Coma

**Skin Corrosion Irritation** : Rabbit No irritation

**Serious Eye Damage/Irritation**: Rabbit, No eye irritation

**Respiratory or skin sensitization**: No data available

**Germ cell mutagenicity**: No data available

### 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.

**ACGIH**: 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 ACGIH.

**NTP**: 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 NTP.

**OSHA**: 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 OSHA.

**Reproductive toxicity**: No data available

**Specific target organ toxicity - single exposure**: No data available

**Specific target organ toxicity - repeated exposure**: No data available

**Aspiration Hazard**: No data available

**Additional Information**: RTECS: YO7900000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. Ecological Information:

All work practices must be aimed at eliminating environmental contamination.

### Ecotoxicity

**Terrestrial Ecotoxicity** : No data available

**Aquatic Ecotoxicity** : No data available

**Invertebrate Toxicity** : Daphnia and other aquatic vertebrates  
EC50 Daphnia magna (Water flea): 89.4 mg/l; 48 h (ECOTOX Database)

**Algae Toxicity** : No data available

**Reptile Toxicity** : No data available

**Mobility in Soil** : No data available.

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 13. Disposal Considerations:

**Disposal Method** : Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

**Product Disposal** : Recycle or reuse whenever possible. Uncontaminated waste may be returned to the manufacturer. Dispose of any contaminated waste product as non-hazardous waste, unless contamination is hazardous in nature.

**Packaging Disposal** : Dispose of at a supervised incineration facility or an appropriate waste disposal facility.

## 14. Transport Information:

**Shipping Name** : Not D.O.T regulated

**Hazard Class** : Not Dangerous for Transport

**UN Number** : None

## 15. Regulatory Information:

### U.S. Federal Regulations:

**TSCA Inventory Status** : CAS# 10213-10-2 is not listed on the TSCA Inventory because is a dihydrate. It is considered to be listed if the number for the anhydrous form is on the Inventory (40CFR720.3(u)(2)). CAS# 13472-45-2 is listed on the TSCA Inventory.

**EINECS listed:** 236-743-4

**CERCLA Section 103:** No

**SARA TITLE III (EPCRA) Section 302:** No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302

**SARA TITLE III (EPCRA) Section 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA TITLE III (EPCRA) Section 311/312:** This product was found to be on the acute hazard chemicals lists.

**OSHA process Safety (29CFR1910.119):** Harmful if swallowed or inhaled

### Canadian WHMIS Classifications: D1B, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CAS# 10213-10-2 is not listed on Canada's Ingredient Disclosure list

CAS# 13472-45-2 is listed on Canada's Ingredient Disclosure list

## 15. Regulatory Information continued:

### U.S. Federal Regulations:

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act

#### Pennsylvania Right To Know Components

	<b>CAS-No.</b>
Disodium wolframate dihydrate	10213-10-2

#### New Jersey Right To Know Components

	<b>CAS-No.</b>
Disodium wolframate dihydrate	10213-10-2

#### California Prop. 65 Components

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

## 16. Other Information:

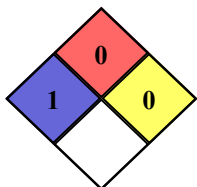
### HMIS Rating:\*

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	D

### \*HMIS Key:

HEALTH -1	Can cause irritation or minor reversible injury.
FLAMMABILITY 0-	Will not burn
PHYSICAL HAZARD 0-	Product stable under ambient temperature and condition.
PERSONAL PROTECTION D	—Face shield, gloves, and apron

### NFPA Rating:\*



### \*NFPA Key:

HEALTH -1	Can cause significant irritation
FLAMMABILITY 0-	Will not burn
REACTIVITY 0-	Normally stable
SPECIFIC HAZARD	—None

Revision Date: March 12, 2015

Reasons for Revision : Add necessary data to meet GHS requirements.

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