

Material Safety Data Sheet

Required under USDL Safety and Health Regulations for Shipyard Employment (29 CFR 1916)

U.S. Department of Labor

Occupational Safety and Health Administration

OMB No. 1218-0074
Expiration Date 05/31/86

REVISED AUGUST 6, 2014

Section I

Manufacturer's Name: Krohn Industries, Inc. Emergency Telephone Number: (201) 933-9696

Address (Number, Street, City, State, and ZIP Code): 303 Veterans Blvd. Carlstadt, NJ 07072

Chemical Name and Synonyms: Bright Nickel Plating Solution

Trade Name and Synonyms: Same

Chemical Family: See Below Formula: Proprietary

for information (201) 933-9696

Section II - Hazardous Ingredients

| | Cas # | % | TWA |
|-----------------|-----------|-----|-----------------------------|
| Nickel Chloride | 7718-54-9 | <10 | 0.1mg/m ³ (OSHA) |
| Nickel Sulfate | 7786-81-4 | <10 | 0.1mg/m ³ (OSHA) |
| | | | |
| | | | |
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| | | | |

Section III - Physical Data

| | | | |
|------------------------|-------|---------------------------------------|-------|
| Boiling Point (°F) | 217°F | Specific Gravity (H ₂ O=1) | 1.186 |
| Vapor Pressure (mm Hg) | N.A. | Percent Volatile by Volume (%) | N.A. |
| Vapor Density (AIR=1) | N.A. | Evaporation Rate (AIR=1) | N.A. |

Solubility in Water: Very Soluble.

Appearance and Odor: transparent green solution with pungent odor

Section IV - Fire and Explosion Hazard Data

| | | | | | | | |
|---------------------------|-------------------|------------------|------|-----|------|-----|------|
| Flash Point (Method Used) | (above 200°F DOT) | Flammable Limits | N.A. | Lel | N.A. | Uel | N.A. |
|---------------------------|-------------------|------------------|------|-----|------|-----|------|

Extinguishing Media: Will not support combustion.

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

Section V - Health Hazard Data

Threshold Limit Value

None known for product

Effects of Overexposure

Irritant

Emergency First Aid Procedures

SKIN: Wash immediately with soap and water. EYES: Flush with a directed stream of water for 15 minutes. Seek Medical Attention! INGESTION: Drink water (2-3 glasses) to dilute,

induce vomiting, Seek Medical Attention!

Section VI - Reactivity Data

| | | | |
|-----------|----------|---|---------------------|
| Stability | Unstable | | Conditions to Avoid |
| | Stable | X | N.A. |

Incompatibility (Materials to Avoid)

N.A.

Hazardous Decomposition Products

N.A.

| | | | |
|--------------------------|----------------|---|---------------------|
| Hazardous Polymerization | May Occur | | Conditions to Avoid |
| | Will Not Occur | X | N.A. |

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled

Absorb with inert absorbent and place into a lined

container properly labeled for disposal.

Waste Disposal Method

Use a licensed waste treatment facility. Follow Federal, State and Local

regulations.

Section VIII - Special Protection Information

Respiratory Protection (Specify Type)

No

Ventilation

Local Exhaust

Yes

Special

No

Mechanical (General)

No

Other

No

Protective Gloves

Rubber Gloves

Eye Protection

Chemical Safety Goggles

Other Protective Equipment

N.A.

Section IX - Special Precautions

Precautions to be Taken in Handling and Storing

Store in cool, dry area. Keep container capped when not in

use. Store away from acids and foods.

Other Precautions

N.A.