

SAFETY DATA SHEET

SUPERIOR PREFLUX NICKEL CLEANER

DATE REVISED: January 1, 2016

Product Name: Superior Preflux Nickel Cleaner

Manufacturer: Superior Flux & Mfg. Co. 6615 Parkland Blvd. Cleveland, OH 44139

Emergency Phone Number: 1-800-424-9300 (CHEMTREC)

Other Information Calls: (440) 349-3000

To the Purchaser: This MSDS contains important environmental, health, and toxicology information for your employees who have ordered this product. Please be sure this information is given to them. If you resell this product, a copy of the MSDS should be given to the buyer.

H.M.I.S. INFORMATION: HEALTH = 3 FLAMMABILITY = 0 REACTIVITY = 0

SECTION I - IDENTIFICATION

Common Name: Superior Preflux Nickel Cleaner

Chemical Family: Nickel Cleaner

CAS Number: NA

Chemical Name: NA

Formula: See below

SECTION II – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:

Classification (CLP): Corrosive

Label Elements (CLP): Corrosive



Corrosive Irritant Environmentally Damaging

Precautionary Phrases: P264, P270, P273, P280, P301+P312, P305+P351+P338, P330, P337+P313, P301+P330+P331, P304+P340, P309+P311

Risk Phrases: R36/37/38, R34

Safety Phrases: S-26, S-27, S-36/37/39, S-45, S18, S61, S62, S64

See section XVI for full text description of S and R phrases

Other Hazards: None if used properly

SECTION III- COMPOSITION INFORMATION

| Components | CAS Number | % | OSHA PEL | H Phrases |
|-------------------|------------|----------|---------------------|-----------------------------|
| Cupric Chloride | 7447-39-4 | 1-3 | 5 mg/m ³ | H290, H302+H312, H315, H318 |
| Hydrochloric Acid | 7647-01-0 | 30-40 | 5 mg/m ³ | H314, H335 |
| Nitric Acid | 7697-37-2 | 0.1 – 5% | 5 mg/m ³ | H272, H314 |

Unlisted percentages are non-hazardous stabilizers, and water. None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

SECTION IV – FIRST AID MEASURES

Inhalation: Remove to fresh air
Eyes: Flush with water for fifteen (15) Minutes. Call physician.
Skin: Wash thoroughly with soap and water.
Ingestion: If patient is fully conscious, give large amounts of water. Obtain medical attention immediately.

Most Important Symptoms and effects, both acute and delayed

Primary Routes of Entry into Body: Fume inhalation, ingestion, skin, and eyes.

Symptoms of Overexposure: Salivation, coughing, choking, chills, may cause weight loss, brittle bones, anemia, and stiff joints.

Medical Conditions Generally Aggravated by Exposure: Any weakness of the lungs, kidneys or liver will be aggravated.

Chemical Listed as Carcinogen or Potential Carcinogen: None

OSHA Permissible Exposure Limit (PEL): NA

ACGIH Threshold Limit Value (TLV): NA

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Flash Point: None

Flammable Limits: N/A

Extinguishing Media: N/A

Auto Ignition Temperature: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: Hydrogen chloride vapors

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Spilled: First neutralize with soda ash or sodium bicarbonate, dilute with water and dispose of in accordance with EPA regulations.

SECTION VII - HANDLING AND STORAGE

Storage Requirements: Store in plastic containers in cool area, away from heat.

Handling Precautions: Safe precautionary practices to avoid spills and exposure to skin and fumes.

Other Precautions: NA

SECTION VIII - CONTROL MEASURES

Respiratory Protection (TYPE): NIOSH approved respirator.

Ventilation: Yes

Mechanical (General): Explosion proof

Local Exhaust: Yes

Protective Gloves: Recommended, NIOSH approved

Other Protective Clothing or Equipment: Rubber apron is recommended.

Eye Protection: Safety Glasses

Regulatory Information: The chemical components are listed on TSCA and DSL inventory. See composition section ii for CAS numbers

SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: 100°C/212°F

Specific Gravity: 1.16

Vapor Pressure (mm Hg): as Water~17

Percent Volatiles: 100

Vapor Density (Air = 1) : >2

Evaporation Rate (Butyl Acetate = 1): 1

Melting Point: N/A

Solubility in Water: Complete

Reactivity in Water: NA

Appearance and Odor: Clear green liquid, acidic

SECTION X - STABILITY AND REACTIVITY

Stability: Stable under normal use conditions.

(Conditions to Avoid): Contact with eyes and skin

Incompatibility: Strong alkaline materials.

Hazardous Decomposition Products: Hydrogen chloride vapors.

Hazardous Polymerization: Will not occur

(Conditions to Avoid): N/A

SECTION XI - TOXICOLOGICAL INFORMATION

Acute Toxicity Data

- 1) **Oral:** LD-50 (rat): Not available
- 2) **Inhalation:** LC-50 (rat): Not available
- 3) **Dermal:** LD-50 (rabbit): Not available
- 4) **Skin Irritation:** (rabbit): Not available

Chronic Toxicity Data

- 1) **Repeated Skin Application:** (rat): Not available
 - 2) **Eye Irritation:** (rabbit): Not available
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SECTION XII - ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with EPA regulations

SECTION XIV- TRANSPORTATION

D.O.T. Proper Shipping Name: Hydrochloric acid solution

Identification Number: UN1789

Hazard Class: 8

Packing Group: II

Type D.O.T Label Required Information: Corrosive

Waste Disposal Method: Dispose in accordance with EPA regulations

SECTION XV - REGULATORY INFORMATION

OSHA Hazardous Chemical According to 29 CFR 1910.1200: NA

Carcinogenicity Classification: (Components Present at 0.1% or More)

International Agency for Research on Cancer (IARC): NA

American Conference of Governmental Industrial Hygienists (ACGIH): NA

National Toxicology Program (NTP): NA

Occupational Safety and Health Administration (OSHA): NA

All Components of this Product are Listed on the U.S. Toxic Substances Control Act Inventory or Otherwise Comply with TSCA Pre-manufacture Notification Requirements.

This product is RoHS compliant.

SECTION XVI - OTHER INFORMATION

The labeling of this product is indicated in Section II. The full text of all abbreviations indicated by codes in the MSDS are as follows:

| | |
|----------------|---|
| R34 | Causes burns |
| R36 | Irritating to eyes |
| R37 | Irritating to respiratory system |
| R38 | Irritating to skin |
| | |
| S-18 | Handle and open container with care |
| S-26 | In case of eye contact, rinse thoroughly and get medical attention |
| S-27 | Take off immediately contaminated clothing |
| S-36/37/39 | Wear suitable protective clothing, gloves, and eye/face protection |
| S-45 | In case of accident or if feel unwell call medical advice immediately |
| S61 | Avoid release to the environment. Refer to special instructions/safety data sheet |
| S62 | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible |
| S64 | If swallowed, rinse mouth with water (only if the person is conscious) |
| | |
| P264 | Wash ... thoroughly after handling |
| P270 | Do not eat, drink or smoke when using this product |
| P273 | Avoid release to the environment |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing |
| P330 | Rinse mouth |
| P337+P313 | If eye irritation persists get medical advice/attention |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P309+P311 | IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician |

| | |
|-----------|---|
| H272 | May intensify fire; oxidizer |
| H290 | May be corrosive to metals |
| H302+H312 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H411 | Toxic to aquatic life with long-lasting effects |
| H319 | Causes serious eye irritation |
| H401 | Toxic to aquatic life |
| H314 | Causes severe skin burns and eye damage |
| H335 | May cause respiratory irritation |

Further information:

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are **NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.**
