Metalx Specialty Products Inc.

SDS

TN-64 Titanium Nitride Stripper

1 PRODUCT AND COMPANY IDENTIFICATION

Supplier Details: Metalx Specialty Products, Inc
2304 Icenhour Court
Lenoir, NC 28645

Emergency: 1-828-758-4997

Phone: 1-828-758-4997

2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Serious Eye Damage/Eye Irritation, 1
Health, Acute toxicity, 4 Oral

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **Danger**

GHS Hazard Pictograms:



GHS Hazard Statements:

H318 - Causes serious eye damage
H302 - Harmful if swallowed

GHS Precautionary Statements:

P280 - Wear protective Gloves/protective clothing/eye protection/face protection.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7722-88-5	**>50%**	**Diphosphoric acid, tetrasodium salt**

The specific chemical identity and/or exact percentages are being withheld as a trade secret (CBI). In the event of an emergency, the exact chemical formula and percentages will be given to medical personnel upon request.

All chemicals in this product are reported in the EPA TSCA Inventory.

4 FIRST AID MEASURES

Inhalation: Remove person to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. If irriation occurs, get medical attention immediately.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Contact a physician if redness persists.

Ingestion: If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately. Do not give anything by mouth to an unconscious or convulsing person.

5 FIRE FIGHTING MEASURES

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

Unsuitable Extinguishing Media: None Known

Hazardous Combustion Products: Unknown

Special protective equipment: Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment. (See Section 8.) Do not get into eyes, skin, or clothing. Wear respiratory protection. Avoid breathing vapors. Ensure adequate ventilation.

Environmental Precautionary Measures: Do not empty into drains, ditches and rivers.

Methods and Materials for Containment and Cleanup: Place in a non-leaking container for proper disposal according to Federal, State, and Local regulations.

7 HANDLING AND STORAGE

Handling Precautions: Use in a well-ventilated area. Do not breathe vapors. Do not get on skin, eyes, or clothing.

Storage Requirements: Keep from freezing. Store between 50 and 80 degrees F. Keep container closed and in a well-ventilated area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use in well ventilated area.

Personal Protective Equipment:

Eye/face protection: Safety Glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with Gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching Gloves outer surface) to avoid skin contact with this product. Dispose of contaminated Gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril (KCL 740 / Aldrich Z677272, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved Gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of Dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the Dangerous substance at the specific workplace.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

Diphosphoric acid, tetrasodium salt (7722-88-5) [>50%]

Components with workplace control parameters

TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white to yellow powder		
Physical State:	Solid	**Odor:**	None to mild
Odor Threshold:	No data available	**Solubility:**	Soluble in water
Specific Gravity or Densi	No data available	**Freezing or Melting Point**	No data available
viscosity:	No data available	**Flash Point:**	No data available
Boiling Point:	No data available	**Vapor Density:**	No data available
Partition Coefficient:	No data available	**Autoignition Temperature**	No data available
Vapor Pressure:	No data available	**Upper Flammability Limit**	No data available
pH:	(1% soln) 9.0-11.0		
Evaporation Rate:	No data available		
Decomp Temp:	No data available		

10 STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Conditions to Avoidentification:	Moisture and exceesive heat (above 200°F)
Materials to Avoidentification:	Avoid exposing to oxidizeing agents and acids.
Hazardous Decomposition:	Oxides of carbon, sulfur dioxide, oxides of nitrogen. Other unknown decomposition products possible
Hazardous Polymerization:	Not expected to occur

11 TOXICOLOGICAL INFORMATION

Diphosphoric acid, tetrasodium salt (7722-88-5) [>50%]

Information on toxicological effects

Acute toxicity:
Oral LD50 LD50 Oral - rat - > 300 - < 2,000 mg/kg
Inhalation LC50 no data available
Dermal LD50 LD50 Dermal - rabbit - 7,940 mg/kg
Other information on acute toxicity

Skin corrosion or irritation: Skin - rabbit - No skin irritation

Serious Eye Damage or Eye Irritation: Eyes - rabbit - Risk of serious damage to eyes.

Respiratory or skin sensitisation: 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 a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - Single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - Repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion Toxic if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: Effects due to ingestion may include:, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: UX7350000

12 ECOLOGICAL INFORMATION

Diphosphoric acid, tetrasodium salt (7722-88-5) [>50%]

Information on ecological effects

Toxicity:
Toxicity to fish LC50 - other fish - 1,380 mg/l - 96 h.
Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 391 mg/l - 48 h.
and other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

13 DISPOSAL CONSIDERATIONS

14 TRANSPORT INFORMATION

USDOT: Non-Regulated

Marine Pollutant: No

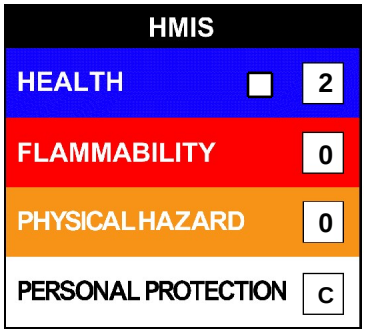
15 REGULATORY INFORMATION

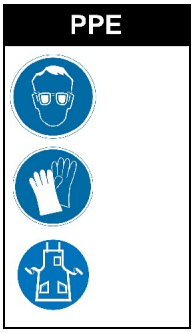
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Component (CAS#) [%] - CODES
-------------------------------------------------------------------
Diphosphoric acid, tetrasodium salt (7722-88-5) [>50%] MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions
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MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level
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16 OTHER INFORMATION

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0
HMIS Personal Protective Equipment: C - Safety Glasses, Gloves, Apron





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