

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: COPPER NICKEL SILICON ALLOYS 7026, XP175
SDS Manufacturer Number: 226993

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:

Manufacturer Name: PMX Industries, Inc.
Address: 5300 Willow Creek Drive SW
Cedar Rapids, Iowa 52404-4303
USA
General Phone Number: 319-368-7700
General Fax Number: 319-368-7701

Emergency phone number:

Emergency Phone Number: 319-368-7700

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

Signal Word: Not applicable.
GHS Class: Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200..

Hazards not otherwise classified that have been identified during the classification process:

Emergency Overview: Copper alloy products in the natural state do not present a hazard for emergency response personnel.
Route of Exposure: Inhalation, Eye Contact, Skin Contact
Potential Health Effects: Copper alloy products in the natural state do not present an inhalation, ingestion, or contact hazard. However, operations such as burning, welding, sawing, brazing, or grinding may release fumes and/or dusts which may present health hazards if occupational exposure limits are exceeded.
Eye: Short-term exposure to fumes/dust may produce irritation.
Inhalation: Short-term exposure to fumes/dust may produce irritation of the respiratory system. Exposure to high concentrations of copper or tin oxide fumes may cause metal fume fever.
Potential Environmental Effects: None known. Product has not been tested for environmental properties.

Nickel

Inhalation: Short-term exposure to fumes/dust may produce irritation of the respiratory system.
Ingestion: Ingestion of large doses of nickel compounds (1-3 mg/kg) has been shown to cause intestinal disorders, convulsions, and asphyxia.
Signs/Symptoms: Nickel overexposure - effects on nasal sinuses, including inflammation and ulceration.
Target Organs: Upper respiratory tract, eyes, skin
Aggravation of Pre-Existing Conditions: Exposure to fumes or dust may aggravate existing respiratory disease or dermatitis.

Copper

Skin: Repeated or prolonged exposure to copper dusts or mists may cause irritant or allergic contact dermatitis.
Inhalation: Exposure to high concentrations of copper or tin oxide fumes may cause metal fume fever.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Nickel	7440-02-0	2% %	231-111-4

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Flush with water for at least 15 minutes.
Skin Contact:	Wash with soap and water.
Inhalation:	If exposed to excessive levels of metal fumes, remove to fresh air. Seek medical attention.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Use extinguishing media appropriate to the surrounding material.
Fire Fighting Instructions:	Copper alloy products in the solid state present no fire or explosion hazard, but may react with strong acids, bases, or oxidizing agents.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up:

Spill Cleanup Measures:	LEAKS, OR RELEASES: Not applicable
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SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	In welding, precautions should be taken for airborne contaminants that may originate from components of the welding rod.
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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Nickel :

Guideline ACGIH:	TLV-TWA: 1.5 mg/m ³ Inhalable fraction (I)
Guideline OSHA:	PEL-TWA: 1 mg/m ³ PEL-TWA: 1 mg/m ³ PEL-TWA: 1 mg/m ³

Copper :

Guideline ACGIH:	TLV-TWA: 1 mg/m ³ TLV-TWA: 0.2 mg/m ³
Guideline OSHA:	PEL-TWA: 1 mg/m ³ PEL-TWA: 0.1 mg/m ³

Appropriate engineering controls:

Engineering Controls:	Local exhaust ventilation should be utilized when welding, burning, sawing, brazing, grinding, or machining when exposure exceeds occupational exposure limits.
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Individual protection measures:

Eye/Face Protection:	Safety glasses or goggles should be utilized as required by exposure. Other protective equipment should be utilized as required by welding standards.
Skin Protection Description:	Wear appropriate personal protective clothing to prevent skin contact with copper dusts and mists.
Respiratory Protection:	NIOSH-approved dust or fume respirator should be used to avoid excessive inhalation of particulates when exposure exceeds occupational exposure limits.
Other Protective:	Do not eat, drink, or smoke during work. Wash hands before eating or smoking.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Solid APPEARANCE: Lustrous metal
Color:	Salmon-colored
Odor:	None
Melting Point:	Not Available
Density:	LB/IN ³ : Not available

Specific Gravity:	Not Available
Vapor Density:	(Air = 1): Not applicable
Vapor Pressure:	Not Applicable
Percent Volatile:	Not Applicable
Evaporation Rate:	Not Applicable
pH:	Not Applicable
Flash Point:	Not Applicable
Lower Flammable/Explosive Limit:	(%): None
Upper Flammable/Explosive Limit:	(%): None
Auto Ignition Temperature:	Not Applicable

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur.

Chemical Stability:

Chemical Stability: Stable.

Conditions To Avoid:

Conditions to Avoid: None

Incompatible Materials:

Incompatible Materials: Mercury, ammonia, acetylene acids. Contact with strong acids, bases, or oxidizing agents.

Hazardous Decomposition Products:

Special Decomposition Products: Metallic dust or fumes may be produced during welding, burning, grinding, and machining.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Nickel :

Acute Toxicity: LD50: 250 mg/kg (rodent, intraperitoneal)

Copper :

Acute Toxicity: LD50: 0.07 mg/kg (mouse, intraperitoneal)

Nickel :

ACGIH: No

IARC: Yes

NTP: Yes

Copper :

ACGIH: (Fume, dusts & mists): No

IARC: (Fume, dusts & mists): No

NTP: (Fume, dusts & mists): No

Nickel :

Chronic Effects: Hypersensitivity to nickel is common and may cause allergic contact dermatitis, pulmonary asthma, and conjunctivitis.

Copper :

Ingestion: ACUTE TOXICITY:
TDLo: 120 µg/kg (human, oral-gastrointestinal effects)

Chronic Effects: Repeated or prolonged overexposure to copper fume may cause the skin and hair to change color.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: Not Applicable

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: According to local, state, and federal regulations.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Not restricted as a dangerous good.
DOT UN Number: Not restricted as a dangerous good.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Nickel:

TSCA Inventory Status: Listed
Section 313: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
California PROP 65: Listed: cancer.
Canada DSL: Listed
EC Number: 231-111-4

Copper:

TSCA Inventory Status: Listed
Section 313: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
Canada DSL: Listed
EC Number: 231-159-6

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

SDS Creation Date: December 15, 2004
SDS Revision Date: September 09, 2015

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