

SAFETY DATA SHEET

1. MATERIAL IDENTIFICATION

Manufacturer's Name: Metallurgical Products Company
Address: 810 Lincoln Avenue
P.O. Box 598
West Chester, PA 19381-0598

Emergency Information: 610-696-6770 ext 120 (24 hr customer service hotline)

Product Name: 17% Phosphor Nickel

Product Description: Metal melting additive

2. HAZARD IDENTIFICATION

GHS LABEL ELEMENTS:



Signal Word: DANGER

Hazard Statement(s): RESPIRATORY & SKIN SENSITIZER, SUSPECTED CANCER CAUSING.

3. COMPOSITION & INFORMATION ON INGREDIENTS

Element	CAS Number	EC Number	Chemical Symbol	Percentage	ACGIH 8 - hr TWA
Nickel	7440-02-0	231-158-0	Ni	82% - 86%	1.5 mg/m ³ -Dust 1.0 mg/ m ³ - Fume
Phosphorus	7723-14-0	231-768-7	P	14% - 18%	0.1 mg/ m ³

The extent to which these substances are present in air depends upon the purchase specification and production methods which must be considered carefully by the user as part of the assessment of risk to health – see hazards.

3. HEALTH HAZARD DATA

Route(s) of Entry:	
Inhalation:	Yes
Skin:	Yes
Ingestion:	Yes

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4. FIRST AID MEASURES	
Eye Contact:	Flush with copious amounts of water and seek medical attention.
Skin Contact:	Wash thoroughly with soap and water.
Inhalation:	Remove to fresh air. Get medical attention.
Ingestion:	Seek medical attention if large quantities of material have been ingested.

5. FIRE AND EXPLOSION HAZARD DATA			
Flash Point:	Not Applicable	Method Used:	Not Applicable
Flammable Limits:	Not Applicable	UEL	Not Applicable
Extinguishing Media:	See Below		

Special Fire Fighting Procedures: Solid, massive form is not combustible under normal conditions. Use fire fighting methods that are appropriate for surrounding fire. Do not use water on fire where molten metal is present. Use class D extinguishing agents or dry sand on fines. Dust clouds may be explosive. Prevent formation of a dust cloud. Firefighters should wear self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES	
Steps to Be Taken in Case Material is Released or Spilled:	No special precautions are necessary for spills of bulk material. If large quantities of dust are spilled, remove by vacuuming or wet sweeping to prevent heavy concentrations of airborne dust. Follow national and local regulations concerning the disposal of waste.

7. HANDLING AND STORAGE	
Handling	Avoid breathing dusts, wash hands immediately after handling product, and ensure clean water eye wash is readily available.
Storage	Store in original containers in a cool and dry environment.

8. EXPOSURE CONTROLS	
Respiratory Protection: S22	If exposure above the PEL or TLV, NIOSH approved respirator for fume or dust, dependent upon the source of airborne contaminant.
Ventilation: S22	Required if dust or fume is created in handling or working on this material.
Local Exhaust:	Required if dust or fume is created in handling or working on this material.
Mechanical (general):	As above to reduce airborne dust or fume levels.
Protective gloves: S27/S28	Required for melting, grinding, cutting, and welding operations. Select glove approved for the specific operation.
Eye Protection: S39	Required with melting, grinding, cutting, welding operations. Minimum requirement of safety glasses with side shields for these operations. Melting and welding may require special eye protection including face shields and specially tinted glass. Grinding operations may also require face-shield.
Other Protective Clothing or Equipment:	As required for the work associated with the melting and pouring of molten metal.
Work/Hygiene Practices: S27/S28	As required for the work associated with the melting and pouring of molten metal.
Other	Use precautions in lifting and prevent dropping of material.

9. PHYSICAL DATA			
Melting Point:	2000° F / 1093° C	Specific Gravity:	9.85
Vapor Pressure:	Not Applicable	Vapor Density:	Not Applicable
% Volatile by Volume:	Not Applicable	Evaporation Rate:	Not Applicable
Appearance and Odor: Silver colored metallic solid in ingot form with minimal odor.			

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10. REACTIVITY DATA

Stability:	Stable under normal conditions of use, storage, and transportation.
Conditions to Avoid:	Molten metal may explode on contact with water. Avoid contact of finely divided material with heat, oxidizers, acids, alkalines, and halogenated compounds (as above).
Hazardous Decomposition of Byproducts:	At temperatures above the melting point metal fumes or vapors may be emitted.

11. TOXICOLOGY INFORMATION

Inhalation: R20	Inhalation of dust may cause nausea.
Skin Contact: R36/R38	May cause skin irritation in susceptible persons.
Eye Contact: R36	May cause eye irritation in susceptible persons.
Ingestion: R22	May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

Bio Degradability	Not Bio Degradable
Bio Accumulation	No Data Available
Mobility	No Data Available
Water Solubility	Not Water Soluble

13. DISPOSAL CONSIDERATIONS

Waste:	Dispose of in accordance with national and local regulations.
Packaging:	Dispose of in accordance with national and local regulations. Do not remove labeling until containers have been cleaned.
Hazardous residue:	May contain hazardous residues. Dispose of in accordance with national and local regulations. Do not remove labeling until containers have been cleaned.

14. TRANSPORTATION INFORMATION

UN Proper Shipping Name	Not Classified
AOR/RID - Description	Not Classified
IM DG Proper Shipping Name	Not Classified

15. REGULATORY INFORMATION

European directive according to the classification of hazardous preparations 90/492/EEC.
US federal regulations – none of the ingredients are listed
US OSHA specifically regulated substances – none present in regulated quantities
SARA- Section 302 and 355 (extremely hazardous substances) Phosphorus CAS#7723-14-0, Nickel CAS#7440-02-0
SARA- Section 304 (emergency release) Phosphorus CAS#7723-14-0
SARA- Section 311/312 (threshold planning quantity) None of the ingredients are listed
SARA- Section 313 (TRI Reporting) Nickel CAS#7440-02-0
CERCLA- Hazardous Substance List (40 CFR 302.4) Nickel CAS#7440-02-0, Phosphorus CAS# 7723-14-0
TSCA – all ingredients are listed
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) – none present in regulated quantities.
Clean Air Act Section 112(r) Accidental Release Prevention (40 CFR 68.130) – none present in regulated quantities.

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Proposition 65(California) – Nickel CAS#7440-02-0
State Right to Know Listings (United States) New Jersey Worker and Community right to Know Act – Nickel and Phosphorus
State Right to Know Listings (United States) Massachusetts RTK Substance List – Nickel and Phosphorus
State Right to Know Listings (United States) Pennsylvania Hazardous Substances – Nickel and Phosphorus
State Right to Know Listings (United States) Rhode Island RTK – Nickel and Phosphorus
Chemical safety assessment: A chemical safety assessment has not been carried out.

16. OTHER INFORMATION

This Safety Data Sheet conforms to EC Directive 91/155/EC, as amended by 93/112/EC.
This issue of MSDS/Rev2 of effective date January 7, 2011, includes revision to section 8 Safety Codes added and Section 11 Risk codes added.
This issue of MSDS/Rev3 of effective date April 29, 2016, includes revisions to acc. To OSHA GHS (29 CFR 1910.1200)
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