



**MATERIAL SAFETY DATA SHEET**

**IDENTITY: PEN S-4**

**SECTION 1**

Manufacturer's Name, Address

FCI USA INC.,  
BURNDY ELECTRICAL

Emergency & Information Telephone Number

603-647-5000

Address

47 EAST INDUSTRIAL PARK DRIVE  
P.O. BOX 9507  
MANCHESTER, NEW HAMPSHIRE 03108-9507

Signature of Preparer (optional)

Supersedes: January, 2002

Date Revised: April, 2006

Date Prepared: April 19, 2000

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Hazardous Components: Specific chemical identity (common name(s))/CAS Number

	OSHA PEL	ACGIH TLV	Carcinogen	% optional)
IRON (CAS # N/A)	N/A	N/A	N/A	78%
SILICON (CAS # 007-440-21-3)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	N/A, 5a*	15%
TITANIUM (CAS # 007-440-32-6)	N/A	N/A	N/A, 5a*	5%
ALUMINUM (CAS # 007-429-90-5)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	N/A, 5a*	2%

\*5a Not suspected as a human carcinogen.

Hazardous Material Information System (HMIS/NFPA) Rating: **Health = 1 Flammability = 0 Reactivity = 0**

WHMIS Hazard Identification System: D2B

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>Boiling Point</b>	Not Applicable	<b>Specific Gravity (H<sub>2</sub>O =1)</b>	≈ 6.7
<b>Vapor Pressure (mm Hg)</b>	Not Applicable	<b>Melting Point</b>	CA 2700 degrees F
<b>Vapor Density (AIR = 1)</b>	Heavier than air	<b>Appearance and Odor</b>	Silvery metal, Odorless
<b>Evaporation Rate</b>	Not Applicable	<b>Reactivity in Water</b>	Insoluble in water
<b>Solubility in other solvent</b>	Partially soluble in mineral acids, insoluble in alcohol		

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point</b>	<b>Flammable Limits</b>	<b>LEL</b>	<b>UEL</b>
N/A	Not Volatile	Not Applicable	Not Applicable
<b>Extinguishing Media:</b>	Non Flammable		
<b>Special Fire Fighting Procedures:</b>	N/A		
<b>Unusual Fire and Explosion Hazards:</b>	None		

## SECTION V - REACTIVITY DATA

Stability - Stable                      Conditions to Avoid - None  
Incompatibility (Materials to Avoid) Strong Mineral Acids.  
Hazardous Polymerization - Will not occur

## SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY	ACUTE & CHRONIC EFFECTS	FIRST AID & MEDICAL
INHALATION DUST	ACUTE: May cause coughing, shortness of breath. CHRONIC: May effect breathing capacity.	Remove to fresh air. Apply artificial respiration as needed. Obtain first aid or medical assistance as needed.
INGESTION	No known adverse effects but ingestion should be avoided.	Obtain first aid or medical assistance if needed.
SKIN	Not absorbed through skin. Sharp edges may produce cut.	Obtain first aid or medical assistance if needed.
EYE	Brittle material may product small jagged flying pieces on impact with itself or other materials.	Obtain medical assistance
OTHER POTENTIAL RISKS	Heavy metallic alloy may damage extremities if dripped on them.	Obtain medical assistance.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled – Normal clean-up procedures. If finely divided, respirators may be required

Waste Disposal Method - Dispose of as scrap metal or solid waste in accordance with Federal, State and Local regulations.

Precautions to be taken in handling and storing – Handle with adequate ventilation for dust, see OSHA 29CFR1910.94 (Ventilation) 29CFR1910.1000 (Air contaminants). Store in closed containers. Protect from contamination with other materials. Do NOT transfer into unmarked containers. Observe lifting precautions when handling containers of this material.

Other precautions – None.

## SECTION VIII - Control Measures

Respiratory Protection (Specify Type) – As needed. Approved dust respirators see OSHA 29CFR1019.122

Ventilation - Use in open, well-ventilated area. Local Exhaust – Recommended.

Mechanical (General) - Recommended                      Other – N/A                      Special N/A

Protective Gloves - Chemical resistant gloves recommended see OSHA 29CFR1910.122

Eye Protection - Safety Glasses recommended see OSHA 29CFR1910.122.

Other Protective Clothing or Equipment - Eye wash should be provided. Hand trucks as needed

Work/Hygienic Practices - Avoid eye contact; wash before eating.

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## SARA NOTICE

FCI USA Inc., Burndy Electrical is required to notify you that you have purchased product which contains a toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR, Part 372. FCI USA Inc., Burndy Electrical is providing the name of the toxic chemical, the associated Chemical Abstract Service (CAS) registry number and percent by weight of the toxic chemical in the product. This notification must not be detached from the MSDS and any copying or re-distribution of the MSDS shall include a copy of this notice.

### **Product: PEN S-4**

SARA Toxic Chemical:                      Aluminum (dust)

CAS No:    7429-90-5

Percentage:    2%