

SCM Metal Products, Inc.

**SAFETY DATA SHEET (SDS)**

2601 Weck Drive Research Triangle Park, NC 27709

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: FP-GMP-458, 40BP, FP, FP-SKW-446, SFP, 1008P, 808P, 80PX

SDS Number: Pb1

Product Codes: 511-XXX

Product Use: For Powder Metallurgy Applications.

Synonyms: Lead Powder

Restrictions: Industrial Use Only.

Emergency: Contact: Chem-Tel Inc.

Manufacturer: SCM Metal Products, Inc.

For U.S., Canada, Puerto Rico, & U.S. Virgin Islands:  
(800) 255-3924

SCM Metal Products, Inc.  
2601 Weck Drive, Box 12166  
Research Triangle Park, NC 27709-2166  
(919) 544-8090

Outside North America:  
(813) 248-0585 (CALL COLLECT)

**2. HAZARDS IDENTIFICATION**Health Hazards:

Acute Toxicity, Oral – Category 4  
Acute Toxicity, Inhalation – Category 3  
STOT RE: Central nervous system – Category 2  
Carcinogen – Category 2  
Irritant, Eye – Category 2B  
Copper Fume: Irritant, Respiratory – Category 3

Pictogram:Environmental Hazards:

Acute Aquatic Toxicity – Category 1

Physical Hazards:

None Known

Signal Word: Danger

Hazard Statements:

H302: Harmful if swallowed.  
H320: Causes eye irritation.  
H331: Toxic if inhaled.  
H351: Suspected of causing cancer.  
H360D: May damage fertility or the unborn child.  
H373: May Cause damage to the central and peripheral nervous system through prolonged and repeated exposure.  
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P273: Avoid release to the environment.  
P284: Wear respiratory protection.  
P301 + P330: IF SWALLOWED: Rinse mouth with water.  
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P391: Collect spillage.  
P501: Dispose of contents/container in accordance with local/regional/national/International regulations.

Other Hazards:

Inhalation of dusts or fumes leads to irritation of respiratory system. Inhalation of higher concentrations may cause metal fume fever.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS Number</u>	<u>EINECS Number</u>	<u>Range % by Wt.</u>
Lead	7439-92-1	231-100-4	> 99

**4. FIRST AID MEASURES**EYES:

Flush eyes with plenty of water, lifting the upper and lower eyelids occasionally. Get medical attention if irritation develops.

SKIN:

Wash the skin using soap or a mild detergent and warm water. Get medical attention if irritation develops. Causes mild skin irritation.

INHALATION:

Move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Get immediate medical attention. Toxic, with danger of cumulative effects. Causes damage to blood, kidney and nervous system.

INGESTION:

If person is conscious, rinse mouth and give large quantities of water to drink. Get medical attention. Toxic if swallowed. Danger of cumulative effects. Causes damage to blood, kidney and nervous system.

**5. FIRE FIGHTING MEASURES****EXTINGUISHING MEDIA:**

Dry chemical, dry sand, graphite, dolomite or sodium chloride. Do NOT use water.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

May be classified as weakly explosive in some countries. Not easily ignited by sparks. Ignition temperature in a dust cloud is above 700°C (1290°F).

**FIRE FIGHTING EQUIPMENT:**

Wear full bunker gear including a positive pressure self-contained breathing apparatus.

**PRECAUTIONS:**

Keep away from ignition sources (e.g. heat and open flames). Use with adequate ventilation. Keep container closed.

**HAZARDOUS DECOMPOSITION:**

None identified.

**6. ACCIDENTAL RELEASE MEASURES**

1. Restrict the area to those persons wearing respiratory protection. Do not allow unprotected people into the area until clean up has been completed.
2. Ventilate the area thoroughly.
3. Collect the powder in a manner that minimizes further dust generation.
4. Keep out of sewers and waterways.
5. Recycle or dispose of as a waste (see Section 13).

**7. HANDLING AND STORAGE**

Avoid dust generation. Wash thoroughly after handling. Eating, drinking, and smoking are prohibited in work areas. Store powder in a dry area, -18° to 38°C.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ventilation Requirements:**

Keep dust and fume levels below occupational exposure limits. Local exhaust ventilation may be necessary for some operations.

**Personal Protective Equipment:****EYES:**

Wear dust-proof safety goggles. Contact lenses are not recommended.

**SKIN:**

Wear suitable clothing and gloves. Workers should wash before eating or smoking. If the occupational exposure limits are exceeded, workers should shower and change clothing before leaving work. (see 29 CFR 1910.1025).

**INHALATION:**

Use with adequate ventilation. Use NIOSH/MSHA approved respirator. If fumes are likely to be generated, use certified respirator that will protect against fumes.

**OTHER:**

Eating and smoking should not be permitted in areas where dust or fume is present. Protective clothing and equipment worn at work should remain at work.

**OCCUPATIONAL EXPOSURE LIMITS:****Lead**

ACGIH TLV	0.05 mg/m <sup>3</sup>
NIOSH IDLH	100 mg/m <sup>3</sup>
OSHA PEL	0.05 mg/m <sup>3</sup>

IDLH = Immediately dangerous to life and health.

Lead is on the Sara Title III, Section 313 Toxic Chemicals List.

**9. CHEMICAL AND PHYSICAL PROPERTIES**

APPEARANCE AND ODOR	Grey powder; odorless
FLASH POINT	Not determined
FLAMMABILITY	Non-flammable
AUTOIGNITION TEMPERATURE	Not determined
pH	Not applicable
VAPOR PRESSURE	1mm HG @ 970°C
VAPOR DENSITY	Not volatile
MELTING POINT	327°C
BOILING POINT	1750°C
SOLUBILITY IN WATER	Not soluble
SOLUBILITY IN FAT	Not determined
OCTANOL/WATER PARTITION COEFFICIENT	Not determined

RELATIVE DENSITY (WATER=1)  
 VISCOSITY

3.7-6.0  
 Not applicable

**10. STABILITY AND REACTIVITY****STABILITY:**

Stable.

**INCOMPATIBLE MATERIALS:**

Lead reacts vigorously with oxidizing materials and with some concentrated acids. It is very reactive with hydrogen peroxide.

**HAZARDOUS DECOMPOSITION:**

None identified.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on information from similar products, the ingredients, technical literature, and/or professional experience.

Lead and inorganic lead compounds are classified by IARC as possibly carcinogenic to humans, but having no human evidence of carcinogenicity. Exposure to lead in experimental animals has resulted in kidney damage, kidney tumors, and lung tumors. Lead poisoning in humans can result in damage to the central and peripheral nervous system, the blood forming organs, and can lead to anemia. Lead may also impair the reproductive system of men and women. There is increasing evidence that the most sensitive effect of lead exposure in adults is high blood pressure. The National Toxicology Program (NTP) has determined that lead is reasonably anticipated to be a human carcinogen.

**12. ECOLOGICAL INFORMATION**

No data on the ecological effects of this product have been developed.

**13. DISPOSAL CONSIDERATIONS**

Disposal must be in accordance with applicable local, state and federal regulations (contact local, state, or federal environmental agency for specific rules). Do not dump into sewers, on the ground, or into any body of water.

**14. TRANSPORTATION INFORMATION**

DOT:	RQ, UN3077, Environmentally Hazardous Substance, Solid NOS (contains Lead), 9, III Marine Pollutant.
DOT EXCEPTION:	Under 49 CFR 171.4, except when transporting aboard a vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packaging transported by motor vehicles, rail cars, and aircraft.
ADR/RID:	UN3077, Environmentally Hazardous Substances, Solid, NOS (contains Lead), 9, III Marine Pollutant.
IMO/IMDG:	UN3077, Environmentally Hazardous Substances, Solid, NOS (contains Lead), 9, III Marine Pollutant.
ICAO/IATA:	UN3077, Environmentally Hazardous Substances, Solid, NOS (contains Lead), 9, III Marine Pollutant.
REPORTABLE QUANTITY:	Lead 10 lbs.

**15. HAZARDOUS MATERIAL IDENTIFICATION SYSTEM/REGULATORY INFORMATION**

Health Hazard: 3 – Serious: Toxic – Avoid inhalation or skin contact.  
 Flammability Hazard: 0 – Minimal: Will not burn under normal conditions.  
 Reactivity Hazard: 0 – Minimal: Normally stable, does not react with water.  
 Minimum Personal Protection: 1 – Safety Glasses, Gloves, Dust & Vapor Respirator.

All chemical constituents of these products are listed on the TSCA Inventory of chemical substances maintained by the U.S. Environmental Protection Agency (EPA).

**16. OTHER INFORMATION**

Revision: B August 14, 2015

Format has been updated to meet the new OSHA Hazard Communication Standard (11/11/2014). Updated sections 1-3 (8/14/2015).

The information in this SDS relates to this specific product group. It may not be valid for this product if used in combination with any other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use.