

SECTION 1 - MANUFACTURER INFORMATION

MANUF/DIST : CHEM-POWER MFG DIV/ FOSTER AND COMPANY, INC.
15 Wing Drive EMERGENCY PHONE.....: 973-267-4100
Cedar Knolls PREPARATION/REVISION DATE: 02/14/02
NJ 07927
PREPARER/CONTACT: Gary Adams, Chemist
LOCATION : Whs 1

TRADE NAME/SYNONYMS...: ACID CORE SOLDER 1LB.
CHEMICAL NAME/SYNONYMS: 40% Tin/60% Lead Solder
CHEMICAL FAMILY.....: Tin/Lead All Alloys; Core-Organic Salt
FORMULA.....: 1%Tin/99%Lead to 99%Tin/1%Lead-Core 1-3%
PRODUCT CODE.....: 514-101

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

* HEALTH..... 1 *
* FLAMMABILITY.. 0 *
* REACTIVITY.... 0 *
* PROTECTION.... X *

SECTION 2 - HAZARDOUS INGREDIENTS

THIS PRODUCT CONTAINS HAZARDOUS INGREDIENTS : YES

CHEMICAL/COMMON NAME	CAS-NUMBER	%	PEL-OSHA TLV-ACGIH
ALLOYS: Tin/Lead Alloy containing from 1% Tin/99% Lead to 99% Tin/1% Lead.			
*Lead	7439-92-1	N/I	.05mg/m3 **See be
Tin	7440-31-5	N/I	2mg/m3 N/1
Others: Core material is Urea plus 10%	57-13-6	N/I	N/I None est
*Ammonium Chloride.	12125-02-9	N/I	N/I 10 mg/m3

**There is an action level above which exposed employees blood must be monitored for Lead content. The action level is .03mg/m3. The maximum allowed in blood is .04mg/100gm. See 29 CFR 1910.1025.

*this ingredient is reportable under EPA SARA Title 111-please check applicable states for additional regulations.

THIS PRODUCT CONTAINS CARCINOGENS (NTP, IARC, or OSHA):NO

CHEMICAL/COMMON NAME	CAS-NUMBER	%	NTP	IARC	OSHA
N/A	N/A	N/A	N/A	N/A	N/A

SECTION 3 - HEALTH HAZARD DATA
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HEALTH EFFECTS (Acute And Chronic)-

Chronic: Lead poisoning after long-term extreme exposure from ingestion or inhalation of compounds or fumes. Symptoms: Metallic taste, abdominal pain, nausea, joint or muscle pain or weakness. Possible loss of weight, mental confusion, Lead line on gums.

PRIMARY ROUTES OF ENTRY-

Inhalation, ingestion.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-

None known.

EMERGENCY FIRST AID PROCEDURES-

Remove immediately from area; see physician. If burned from molten metal, give ordinary burn first aid.

SECTION 4 - CHEMICAL DATA
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BOILING POINT (F).....: 250F	SPECIFIC GRAVITY (WATER=1).....: 1.3*
VAPOR PRESSURE (mmHg): CORE	PERCENT VOLATILE BY VOLUME (%): 10-25%
VAPOR DENSITY (AIR=1): N/A	EVAPORATION RATE (ABOVE DATA CORE =1): ONLY

SOLUBILITY IN WATER-

CORE:Yes. SOLDER:Insoluble.BOIL PT.SOLDER->1700F.

APPEARANCE AND ODOR INFORMATION-

CORE: white powder. SOLDER: metallic color, solid, grey to shiny silvery grey.

*NOTE: SPECIFIC GRAVITY for SOLDER is 7.3 to 11.3.

SECTION 5 - PHYSICAL HAZARD DATA
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FLASH POINT (Method Used): N/A

FLAMMABLE LIMITS : Lel=N/A UEL=N/A

EXTINGUISHING MEDIA-

Not combustible.

SPECIAL FIRE FIGHTING PROCEDURES-

In extremely high temperature fires, Lead may emit toxic fumes. Use a self-contained respiratory system. When in proximity to highly oxidizing materials at very high temperatures, Lead may react vigorously.

UNUSUAL FIRE AND EXPLOSION HAZARDS-

Above 250F core vaporizes and emits Ammonia fumes. Moderate hazard when high concentration of very fine metallic dust is exposed to high heat or open flame.

INCOMPATIBILITY (Materials To Avoid)-

Material may be incompatible with acids, bases and oxidizers. Molten metal may react violently with water. In presence of alkalis, Ammonia is released; in the presence of acids, Hydrogen Chloride is released.

HAZARDOUS DECOMPOSITION PRODUCTS-

Temperature above the melting point may emit toxic fumes.

WILL HAZARDOUS POLYMERIZATION OCCUR-

Not known to occur.

CONDITIONS TO AVOID FOR POLYMERIZATION-

None known.

IS THE PRODUCT STABLE-

Yes, the product is stable.

CONDITIONS TO AVOID FOR STABILITY-

None known.

SECTION 6 - SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED-

Normal housekeeping for solid metal. Metallic powder or dust should be vacuumed or wet swept using a respirator and protective clothing.

WASTE DISPOSAL METHODS-

Scrap drippings and drosses should be stored in a closed container and returned to a Lead recycler. Follow Federal, state and local regulations regarding disposal.

SECTION 7 - EXPOSURE CONTROL INFORMATION

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VENTILATION-

LOCAL EXHAUST: fume hood over work	MECHANICAL (General): 200ft. air velocity
SPECIAL.....: area.	OTHER.....: into hood opening.

RESPIRATORY PROTECTION-

Consult NIOSH

PROTECTIVE GLOVES-

Use near molten or hot metal.

OTHER PROTECTIVE EQUIPMENT-

Safety Glasses, face shield if danger of splashing molten metal. Safety eyewash stations should be in close proximity.

OTHER ENGINEERING CONTROLS-

None deemed necessary.

WORK PRACTICES-
N/A

HYGIENIC PRACTICES-
Wash hands after use and before eating or using lavatory facilities.

SECTION 8 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE-

Use good housekeeping practices to prevent accumulations of dust and to keep airborne dust concentrations at a minimum. Avoid breathing dust or fumes. Wash hands after handling, Do not smoke or expose food to dust. Keep area clean.

MAINTENANCE PRECAUTIONS-
N/A

OTHER PRECAUTIONS-

KEEP OUT OF REACH IF CHILDREN! Refer to OSHA Standard 29CFR 1910.1025 for control of employee exposure to Lead. There are instances whereby exposure must be monitored and/ or controlled. Blood level of Lead is currently 0.04 mg per 100 ml by authority of OSHA.

ADDITIONAL COMMENTS-

Shipping Name: Bolts,nuts, NOIBN. Class **50**.