

alphametals.

Jersey City, New Jersey 07304 Telephone 201-434-6778



NUMBER

527

REVISION 04/01/99

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SECTION I. GENERAL INFORMATION

PRODUCT NAME (NUMBER)

Flo-Temp "Lead-Free" Solder

CHEMICAL FAMILY D.O.T. HAZARD CLASS Inorganic Metals. Not regulated.

SECTION II. HAZARDOUS INGREDIENTS

INGREDIENTS	CAS NUMBER	WEIGHT PERCENT	OSHA PEL	ACGIH TLV
Tin	7440-31-5	93-97	2.0 mg/cum	2.0 mg/cum
Silver	7440-22-4	. 25 - 1 . 0	0.01 mg/cum	0.1 mg/cum
Copper	7 4 4 0 - 5 0 - 8	3 - 6	0.1 mg/cum	0.2 mg/cum

SECTION III. PHYSICAL DATA

(PUBLISHED OR ESTIMATED VALUES)

BOILING POINT Deg F.

NA

SPECIFIC GRAVITY

NA

(760 mm Hg)

VAPOR PRESSURE

NA

(H2O=1)

(mm Hg at 20 Deg. C.)

% VOLATILE BY WEIGHT **EVAPORATION RATE**

NA NA

VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER

NA

Insoluble

pH

NA

APPEARANCE AND ODOR

Silver-gray metal wire, odorless, various sizes.

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air)

LEL:

NA

UEL: NA

FLASH POINT Deg F.

None.

EXTINGUISHING MEDIA

NA

SPECIAL FIRE **FIGHTING PROCEDURES**

Use NIOSH approved self-contained breathing

apparatus if involved in a fire.

UNUSUAL FIRE AND EXPLOSION

NA - NOT APPLICABLE

None.

HAZARD

NE-NOTESTABLISHED

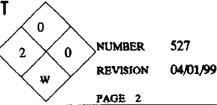
NL - NOT LISTED

UN - UNKNOWN



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SECTION V.(A) HEALTH HAZARD DATA

(Symptoms/Effects Of Overexposure)

ROUTES OF EXPOSURE: Inhalation of dusts or fumes.

ACUTE EFFECTS: Excessive inhalation of fumes from many metals can produce an acute reaction known as "metal fume fever". Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large exposures. Long term effects of metal fume fever have not been noted.

CHRONIC EFFECTS: Chronic inhalation of tin oxide or fume leads to benign pneumoconiosis without symptoms of interference with pulmonary function.

See Section X for additional health information.

SECTION V.(B) HEALTH HAZARD DATA

(Emergency and First Aid Procedures)

INHALATION

If accute overexposure to fumes occurs, remove victim from the adverse environment and seek medical attention.

INGESTION

If particles are ingested, give 1-2 glasses of water or milk. Induce vomiting only if victim is fully conscious and not convulsed. All ingestion cases should receive immediate

medical attention.

SKIN CONTACT If dust or mist gets on the skin, wash the contaminated area with soap and water. Remove contaminated clothing and launder

before reuse.

EYE CONTACT Flush with large amounts of water. Get medical aid.

SECTION VI. REACTIVITY DATA

STABILITY STABLE:

X

UNSTABLE:

CONDITIONS TO AVOID

None.

INCOMPATABILITY

Chloride and turpentine.

(Materials to Avoid)

None.

HAZARDOUS

DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION

WILL OCCUR: WILL NOT OCCUR; X

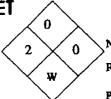
CONDITIONS TO AVOID

None.



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SECTION VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Minimal problems with spills of this product would occur because of its solid form. If airborne dust is generated during the cleanup, use an appropriate NIOSH-approved respirator.

WASTE DISPOSAL Scrap should be reclaimed in accordance with solder waste

minimization practices.

Must be in accordance with Federal, State and Local Laws and

Regulations

SECTION VIII. SPECIAL PROTECTION

RESPIRATORY When engineering or administrative controls are not feasible to

control overexposure or while they are being instituted, appropriate NIOSH-approved respirators should be used and selected

according to 29CFR 1910.134.

EYEWEAR Personal protective equipment for eyes should be worn when there

is a reasonable probability of injury during use.

CLOTHING/ GLOVES As needed to protect against physical hazards.

VENTILATION

Local exhaust ventilation should be provided to keep worker

exposures within allowable limits during use.

SECTION IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Food and drink should not be consumed or tobacco products used, nor cosmetics applied in areas where solder may be used. Always wash hands after handling solder and before eating, drinking or smoking.

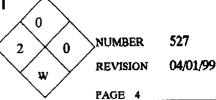
OTHER PRECAUTIONS:

Containers: Since empty containers may retain product residues
(vapor, liquid, or solid) all labeled hazard precautions
must be observed. FOR INDUSTRIAL USE ONLY.
KEEP OUT OF REACH OF CHILDREN. DO NOT
TAKE INTERNALLY.



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SECTION X. ADDITIONAL INFORMATION

HEALTH HAZARD DATA: (continued)

SILVER: Chronic exposure to fumes may result in bronchitis.

COPPER: No long term effects from inhalation or ingestion reported.

TARGET ORGAN EFFECTS: (NIOSH) Eyes, skin and respiratory system.

MEDICAL CONDITIONS AGGRAVATED: Diseases of the respiratory system.

CARCINOGENS: None.

---- REGULATORY INFORMATION ---

Toxic Substance Control Act (TSCA) Status:

All ingredients of this product are listed on the TSCA inventory.

SARA TITLE III (Section 313):

Components present in this product at a level which could require reporting under the statite are:

Silver - Copper

California State Proposition 65:

This product does not contain chemicals which the State of California has found to cause cancer, birth defects or other reproductive harm.

EMERGENCY TELEPHONE NUMBER

CHEMTREC

1-800-424-9300

DAY OR NIGHT

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