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FORMULA: 527

MSDS EFFECTIVE: 07/26/95

SUPERSEDES MSDS OF: 01/29/93

COF: 128649

INVOICE: 805452

SDS KEY: 0864417

SECTION I - PRODUCT IDENTIFICATION

PART NUMBER: 53927
PRODUCT NAME: LEAD-OUT PLUMBERS SOLDER 1LB.
TRADE NAME/SYNONYMS: LEAD FREE SOLDER
CHEMICAL FAMILY: SOLDERS

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	WT %	PEL	TLV	STEL	UNITS	LC50,PPM	LD50,MG/KG
COPPER	07440-31-5	90-99	2	2	N/A	MG/M3	N/A	N/A
	#07440-50-8	1-10	0.1*	0.2*	N/A	MG/M3	N/A	N/A

SECTION III - PHYSICAL DATA

BOILING PT DEG F/C: N/A
VAPOR PRESSURE(MM HG):N/A
VAPOR DENSITY(AIR=1):N/A
SOLUBILITY IN WATER: INSOLUBLE
PHYSICAL STATE: SOLID
FREEZE PT DEG F/C: N/A
APPEARANCE AND ODOR: SILVER-GRAY WAIRE, ODORLESS

SPECIFIC GRAVITY:N/A
%VOLATILE VOLUME:N/A
EVAPORATION RATE:N/A
WATER/OIL DIST COEFF:0
PH: N/A
THRESHOLD ODOR,PPM: N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

CLASSIFICATION: N/A
COMBUSTION PRODUCTS: NONE
FLASH POINT DEG F/C: NONE
EXTINGUISHING MEDIA: N/A
AUTO IGN. TEMP DEG F/C: N/A
SPECIAL FIRE FIGHTING PROCEDURES:
FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING EQUIPMENT.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
CONTACT WITH FLAME OR HOT SURFACES MAY PRODUCE TOXIC GASES.
EXPLOSIVE POWER: N/A
BURNING RATE: N/A

NFPA RATING: 2,0,0 HMIS: 2,0,0
LEL%:N/A UEL%:N/A
IMPACT SENSITIVE: NO
STATIC SENSITIVE: NO

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===== SECTION V - HEALTH HAZARD DATA =====

NOTES OF ENTRY: SKIN CONTACT, EYE, INHALATION

EFFECTS OF OVEREXPOSURE:

OVEREXPOSURE TO FUMES MAY RESULT IN DIZZINESS, NAUSEA OR DRYNESS OR IRRITATION OF NOSE, THROAT, EYES OR RESPIRATORY SYSTEM. CHRONIC EXCESS FUMES ABOVE PEL OR TLV MAY AFFECT EYES, NASAL PASSAGES & SKIN. MAY CAUSE EYE & SKIN IRRITATION. PROLONGED & REPEATED INHALATION MAY BE HARMFUL TO RESPIRATORY SYSTEM. REPEATED & PROLONGED OVEREXPOSURE MAY CAUSE PERMANENT EYE DISCOLORATION & VARYING DEGREES OF PARALYSIS IN THE EXTREMITIES. INGESTION CAUSES NAUSEA, CRAMPS, VOMITING, DIARRHEA.

ANY SUSPECTED CARCINOGEN = OR > 0.1%?: NO

EMERGENCY AND FIRST AID PROCEDURES:

EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MIN. & CALL PHYSICIAN.

SKIN: WASH THOROUGHLY WITH PLENTY OF WATER & SOAP. IMMEDIATELY REMOVE ALL CONTAMINATED CLOTHING. LAUNDRY BEFORE REUSE. INHALATION: IF AFFECTED, REMOVE TO FRESH AIR, ADMINISTER OXYGEN & CALL PHYSICIAN. INGESTION: SEEK PHYSICIAN IMMEDIATELY, SHOW MSDS OR LABEL, INDUCE VOMITING. GIVE 1-2 GLASSES OF WATER OR MILK.

===== SECTION VI - REACTIVITY DATA =====

STABLE: YES CONDITIONS TO AVOID:

INCOMPATIBILITY (MATERIALS TO AVOID): YES CHLORIDE AND TURPENTINE

HAZARDOUS DECOMPOSITION PRODUCTS: NO

HAZARDOUS POLYMERIZATION: NO

===== SECTION VII - SPILL OR LEAK PROCEDURES =====

LISTED IN: SARA TITLE III; #302: NO #304, CERCLA: YES #313: YES

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

REMOVE ALL SOURCES OF IGNITION. CONTAIN & PICK UP WASTE MATERIAL. PUT IN A SEALED APPROVED CONTAINER.

DISPOSAL METHOD:

DISPOSE OF WASTES IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

===== SECTION VIII - SAFE HANDLING AND PROTECTION INFORMATION =====

VENTILATION-LOCAL: RECOMMENDED

SPECIAL: N/A

MECHANICAL: REQUIRED

OTHER: N/A

PROTECTIVE GLOVES: N/A

EYE PROTECTION: SAFETY GLASSES

PRECAUTIONS IN USE:

IF VENTILATION IS INADEQUATE, WEAR APPROVED RESPIRATORY EQUIPMENT. DO NOT USE PRODUCT WHILE EATING, DRINKING OR USING TOBACCO PRODUCTS.

ESTIMATED LD50, MG/KG: NO

ESTIMATED LC50, PPM: NO

SENSITIZATION: NO

IRRITANT: NO

SYNERGISTIC AGENTS: NO

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===== SECTION IX - SPECIAL PRECAUTIONS =====

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

ARCS, SPARKS & FLAME MAY BE A SOURCE OF IGNITION OF COMBUSTIBLE MATERIALS. USE ONLY IN WELL VENTILATED AREAS. DO NOT BREATHE FUMES. IF VENTILATION IS INADEQUATE, WEAR APPROVED RESPIRATORY EQUIPMENT. AVOID CONTACT WITH EYES, SKIN & CLOTHING. WASH THOROUGHLY AFTER USING. INDIVIDUALS WITH WILSONS DISEASE ARE AT INCREASED RISK OF COPPER POISONING. IN CASE OF ACCIDENT OR ILLNESS, SEEK PHYSICIAN IMMEDIATELY, SHOW LABEL OR MSDS.

OTHER PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. ALWAYS READ & FOLLOW DIRECTIONS ON PRODUCT LABEL. ADDITIONAL TECHNICAL DATA SHEETS AND/OR MATERIAL SAFETY DATA SHEETS (MSDS) ARE AVAILABLE UPON REQUEST. FOR PROFESSIONAL & INDUSTRIAL USE ONLY.

SYMBOLS, ABBREVIATIONS AND NOTATIONS:

#=LISTED IN SARA TITLE III SECTION 313; @=NON-HAZARDOUS INGREDIENT AMONG THE 5 MOST PREDOMINANT SUBSTANCES; +=CONTAINS ENCAPSULATED SILICA-CRYSTALLINE. NORMAL PRODUCT USAGE SHOULD NOT RESULT IN RESPIRABLE DUST THAT WOULD BE HAZARDOUS TO THE RESPIRATORY SYSTEM; N/A=NOT AVAILABLE OR APPLICABLE; *=IF FOUND AS DUST, MIST OR FUME; C=CEILING LIMIT; S=SKIN DESIGNATION; M=HUMAN; RAB=RABBITS; GPG=GUINEA PIGS; MIC=MICE; I=INGESTION; A=SKIN ABSORPTION; LO=LITTLE OBSERVABLE EFFECT; NO=NO EFFECT; PEL=OSHA PERMISSIBLE EXPOSURE LIMIT; TLV=ACGIH THRESHOLD LIMIT VALUE; STEL=SHORT TERM EXPOSURE LIMIT.

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