

MATERIAL SAFETY DATA SHEET

MCM ELECTRONICS
650 CONGRESS PARK DR.
CENTERVILLE, OH 45459

\* EMERGENCY/INFORMATION TELEPHONE
\* 800/255-3924
\* 937/434-0031

MAIL TO:

\* FORMULA: MIXTURE DATE: 2/8/00
\*
\* MSDS EFFECTIVE: 2/8/00 BY: C.B.M.
\*
\* SUPERSEDES MSDS OF: 5/27/98

DEAR CUSTOMER:

IN COMPLIANCE WITH THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA TITLE III, SECTION 313), FEDERAL HAZARD COMMUNICATIONS REGULATIONS (WHMIS AND OSHA 29 CFR 1910.1200) AND IN THE INTEREST OF INFORMED USE OF OUR PRODUCT, WE ARE PROVIDING YOU WITH THIS MATERIAL SAFETY DATA SHEET (MSDS). THIS MSDS WILL BE UPDATED REGULARLY TO REFLECT THE MOST RECENT INFORMATION IN OUR POSSESSION. PLEASE ENSURE THAT OBSOLETE MSDS SHEETS IN YOUR FILES FOR THIS PART NUMBER ARE DISCARDED. WE THANK YOU FOR CONTINUED PATRONAGE AND LOOK FORWARD TO PROVIDING YOU WITH ADDITIONAL QUALITY PRODUCTS AND SERVICES.

SECTION I - PRODUCT IDENTIFICATION

PART NUMBER: 21-1045
PRODUCT NAME: Solder 1lb.
TRADE NAME/SYNONYMS: N/A
CHEMICAL FAMILY: N/A

SECTION II - HAZARDOUS INGREDIENTS

Table with 9 columns: INGREDIENT, CAS NO., WT%, PEL, TLV, STEL, UNITS, LC50, PPM, LD50, MG/KG. Rows include LEAD, TIN, and GUM ROSIN with their respective values.

INGREDIENTS TOTAL WT% ARE BELOW 100% ONLY IF ALL OTHERS UNLISTED ARE NOT CONSIDERED HAZARDOUS BY ANY FEDERAL, (OSHA, WHMIS, SARA), ANY STATE OR PROVINCE, OR LOCAL RIGHT-TO-KNOW REGULATIONS.

SYMBOLS, ABBREVIATIONS AND NOTATIONS:

N/A=NOT AVAILABLE OR APPLICABLE; C=CEILING LIMIT; S=SKIN DESIGNATION; #=LISTED IN SARA TITLE III SECTION 313; @=AMONG THE 5 MOST PREDOMINANT SUBSTANCES; \*=IF FOUND AS DUST, MIST OR FUME; 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=AOGIH THRESHOLD LIMIT VALUE; STEL=SHORT TERM EXPOSURE LIMIT

21-1045, 28-5665, 28-5620, 28-5825, 28-5575, 28-5580, 28-5875, 28-5870, 28-5865, 28-5555, 28-5550, 28-5600, 28-5860, 28-5845, 28-5645, 28-5840, 28-5660, 28-5605, 28-5585, 28-5670, 28-5675, 28-5630, 28-5560, 28-5820, 28-5855, 28-5850, 28-5615, 28-5650, 28-5795, 28-5810, 28-5815, 28-5790, 28-5595, 28-5590, 28-5610, 28-5655, 28-5625, 28-5785, 28-5805, 28-5800, 28-5835, 28-5565, 28-5570, 28-5640, 28-5635

PRODUCT IDENTIFICATION:

\*\*\*\*\*SECTION III - PHYSICAL DATA\*\*\*\*\*

BOILING POINT (DEG F/C): FLUX ) 400F/204C SPECIFIC GRAVITY: N/A  
VAPOR PRESSURE (MM HG): N/A % VOLATILE VOLUME: N/A  
VAPOR DENSITY (AIR=1): N/A EVAPORATION RATE : N/A  
SOLUBILITY IN WATER: NIL WATER/OIL DIST COEFF: N/A  
APPEARANCE AND ODOR: Silver-gray metal, odorless wire  
PHYSICAL STATE: Solid THRESHOLD ODOR (PPM): N/A  
FREEZE PT (DEG F/C): N/A pH: N/A  
OTHER:  
VOC: LBS/GAL=N/A; GRAMS/LITER=N/A; GRAMS VOC/GRAM SOLID=N/A; % VOC N/A

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

CLASSIFICATION: N/A NFPA RATING: N/A  
COMBUSTION PRODUCTS: PBO, SNO, CO, CO2  
FLASHPOINT (DEG F/C): N/A LEL%: N/A UEL%: N/A  
EXTINGUISHING MEDIA: WATER/FOG/FOAM/DRY CHEMICAL/CARBON DIOXIDE  
UN/NA/PIN NO: N/A SPECIAL FIREFIGHTING PROCEDURES:  
Firefighters should wear self-contained breathing equipment.  
AUTO IGN. TEMP (DEG F/C): N/A  
UNUSUAL FIRE AND EXPLOSION HAZARDS:  
Contact with flame or hot surfaces may produce toxic gases.  
EXPLOSIVE POWER: N/A IMPACT SENSITIVE: No  
BURNING RATE: N/A STATIC SENSITIVE: No

\*\*\*\*\*SECTION V - HEALTH HAZARD DATA\*\*\*\*\*

PRODUCT GUIDE: TLV (See Section II) STEL: (See Section II)  
ROUTES OF ENTRY: Eyes, Inhalation, and Ingestion  
EFFECTS OF OVEREXPOSURE: Short-term 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 be hazardous. May cause irritation of skin. Harmful or fatal if swallowed. Experimental teratogen. May cause birth defects. Excess dusts and fumes are inhalation hazard to lungs and kidneys.

LISTED AS A SUSPECTED CARCINOGEN: Yes IARA & CAL 65 LIST LEAD.

EMERGENCY AND FIRST AID:

EYE: Immediately flush with plenty of water for 15 min. and call physician.  
SKIN: Wash thoroughly with plenty of soap & water. INHALATION: If affected, remove to fresh air, administer oxygen and call physician. INGESTION: Seek physician immediately, show MSDS/Label, induce vomiting.

\*\*\*\*\*SECTION VI - REACTIVITY DATA\*\*\*\*\*

STABLE: Yes CONDITIONS TO AVOID: N/A  
INCOMPATIBILITY (MATERIALS TO AVOID): Yes, Strong Acids, H2O2, and Oxidizers  
HAZARDOUS DECOMPOSITION PRODUCTS: Yes, Acetone, CO, Acids, and Formaldehyde  
HAZARDOUS POLYMERIZATION: NO CONDITIONS TO AVOID: N/A

21-1045, 28-5665, 28-5620, 28-5825, 28-5575, 28-5580, 28-5875, 28-5870, 28-5865, 28-5555, 28-5550,  
28-5600, 28-5860, 28-5845, 28-5645, 28-5840, 28-5660, 28-5605, 28-5585, 28-5670, 28-5675, 28-5630,  
28-5560, 28-5820, 28-5855, 28-5850, 28-5615, 28-5650, 28-5795, 28-5810, 28-5815, 28-5790, 28-5595,  
28-5590, 28-5610, 28-5655, 28-5625, 28-5785, 28-5805, 28-5800, 28-5835, 28-5565, 28-5570, 28-5640,  
28-5635

PRODUCT IDENTIFICATION:

\*\*\*\*\*SECTION VII - SPILL OR LEAK PROCEDURES\*\*\*\*\*

LISTED IN: SARA TITLE III, #302: No #304, CERCIA: Yes #313: Yes

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: In case of spill, clean up with absorbent material. Contain and pick up waste materials. Put in a sealed, approved container.

REPORT QUANTITY, LB: 3 KG: 1.0 TPQ, LB: N/A  
REGULATIONS: SARA, CERCLA, RCRA, PROV/STATE, WHMIS OTHERS: N/A  
HAZARD WASTE: EP TOXIC  
NUMBER: D008 DISPOSAL METHOD: Dispose of wastes in accordance with Federal, state, and local regulations.

\*\*\*\*\*SECTION VIII - SAFE HANDLING AND PROTECTION INFORMATION\*\*\*\*\*

RESPIRATORY PROTECTION: Approved hood, respirator, or supplied air mask.

VENTILATION - LOCAL: Required SPECIAL: Welders, ANSI Z49.1  
VENTILATION - MECHANICAL: Required OTHER: N/A  
PROTECTIVE GLOVES: Welders protective gloves EYE PROTECTION: Safety glasses  
OTHER PROTECTIVE EQUIPMENT: Wear Eye/Face protection and colored absorptive lens. Wear welders leather apron, sleeves, and leggings.  
ESTIMATED LD50, MG/KG: No  
ESTIMATED LC50, PPM: No  
SENSITIZATION: No  
IRRITANT: No SYNERGISTIC AGENTS: No

\*\*\*\*\*SECTION IX - SPECIAL PRECAUTIONS\*\*\*\*\*

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Keep in a cool place. ARC, spark & flame could be a source of ignition of combustible materials. Avoid contact with eyes and skin. Do not take internally. Contact with flame or hot surfaces may product toxic gases. Wash thoroughly after using. In case of accident or illness, seek physician immediately. Show label or MSDS.

**OTHER PRECAUTIONS:**

DO NOT USE PRODUCT WHILE EATING, DRINKING OR USING TOBACCO PRODUCTS. KEEP OUT OF REACH OF CHILDREN. KEEP ONLY IN ORIGINAL LABELED CONTAINERS. DO NOT EMPTY INTO DRAINS. ALWAYS READ & FOLLOW DIRECTIONS ON PRODUCT LABEL. ADDITIONAL TECHNICAL DATA SHEETS AND/OR MATERIAL SAFETY DATS SHEETS (MSDS) ARE AVAILABLE UPON REQUEST. FOR PROFESSIONAL & INDUSTRIAL USE ONLY.

THE INFORMATION AND RECOMMENDATIONS PROVIDED HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF. HOWEVER, SUCH INFORMATION AND RECOMMENDATIONS ARE PROVIDED WITHOUT WARRANTY OF ANY KIND AND PREMIER INDUSTRIAL CORPORATION DISCLAIMS ANY AND ALL LIABILITY OR LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON SAME.

21-1045, 28-5665, 28-5620, 28-5825, 28-5575, 28-5580, 28-5875, 28-5870, 28-5865, 28-5555, 28-5550, 28-5600, 28-5860, 28-5845, 28-5645, 28-5840, 28-5660, 28-5605, 28-5585, 28-5670, 28-5675, 28-5630, 28-5560, 28-5820, 28-5855, 28-5850, 28-5615, 28-5650, 28-5795, 28-5810, 28-5815, 28-5790, 28-5595, 28-5590, 28-5610, 28-5655, 28-5625, 28-5785, 28-5805, 28-5800, 28-5835, 28-5565, 28-5570, 28-5640, 28-5635