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#### MANUFACTURE INFORMATION

GROBET FILE CO. OF AMERICA, INC.

750 WASHINGTON AVE. EMERGENCY PHONE.....: 800-255-3924 CARLSTADT, NJ 07072 PREPARATION/REVISION DATE: 03/20/92

TRADE NAME/SYNONYMS...: SOLDER-SILVER PASTE-HARD CHEMICAL NAME/SYNONYMS: FURNACE BRAZING PASTE

CHEMICAL FAMILY..... BRAZING COMPOUNDS

FORMULA....: PROPRIETARY

PRODUCT CODE..... 54.832

DOES PRODUCT CONTAIN HAZARDOUS INGREDIENTS? (Y,N,N/A,N/I) : Y

CHEMICAL/COMMON	NAME	CAS-NUMBER	%	PEL-OSHA	TLV-ACGIH
SILVER		7440-22-4	75	N/A	.01MG/M3
COPPER		7440-50-8	N/A	N/A	.1MG/M3
ZINC		7440-66-6	N/A	N/A	5.0MG/M3
POTASSIUM BIFLOURIDE		7789-29-2	N/A	N/A	2.5MG/M3
POTASSIUM FLUOBORATE		14075-53-7	N/A	N/A	2.5MG/M3

DOES PRODUCT CONTAIN CARCINOGENS (NTP, IARC, OR OSHA)? (Y,N,N/A,N/I): N

### HEALTH EFFECTS (ACUTE AND CHRONIC)

FLOURIDE FUMES CAUSE HYPOCALCEMIA; SKIN CONTACT CAUSES SEVERE IRRITATION ESPECIALLY ON ABRASED SKIN. EYE CONTACT IRRITATES STRONGLY - FUTHER EXPOSURE MAY CAUSE BURNS, CORNEAL DAMAGE. INGESTION OF FLOURIDE MYA BE FATAL. SILVER: OVER EXPOSURE TO SILVER DUSTS OR FUMES MAY CAUSE A PERMANENT GRAYISH PIGMENTATION OF THE SKIN AN CAN CAUSE IRRITATION OF THE SKIN AND MUCOUS MEMBRANES. PROLONGED OVEREXPOSURE CAN LEAD TO KIDNEY DAMAGE. COPPER: INDUSTRIAL EXPOSURE TO COPPER FUMES, DUSTS OR MISTS RESULTS IN METAL FUME FEVER WITH ATROPHIC CHANGES IN NASAL MUCOUS MEMBRANES. CHRONIC POISONING RESULTS IN WILSON'S DISEASE, CHARACTERIZED BY A HEPATIC CIRRHOSIS, BRAIN DAMAGE, DEMYELIMATION, RENAL DISEASE AND COPPER DEPOSITION IN THE CORNEA. ZINC EXPOSURE MAY CAUSE METAL FUME FEVER. FLOURIDE EXPOSURE HAS BEEN LINKED TO SKELETAL ABNORMALITIES AND GASTRIC COMPLICATIONS.

PRIMARY ROUTES OF ENTRY INHALATION, SKIN INGESTION

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

PREEXISTING EYE AND SKIN DISORDER OR DAMAGE TO MUCOUS MEMBRANES MAY BE
SUSCEPTIBLE TO THE EFFECT OF FLOURIDE EXPOSURE.



PAGE 2 EMERGENCY FIRST AID PROCEDURES VICTIMS OF OVEREXPOSURE TO FUME - IMMEDIATELY REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN IF QUALIFIED OPERATOR IS AVAILABLE. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CALL A PHYSICIAN AND GIVE SUPPORTIVE TREATMENT. BOILING POINT(F).... >450F SPECIFIC GRAVITY(WATER=1)......N/A VAPOR PRESSURE (MMHG) <.5MM PERCENT VOLATILE BY VOLUME(%)..... N/A VAPOR DENSITY(AIR=1) N/A EVAP RATE( NIL @ 25C 25C SOLUBILITY IN WATER.. INSOLUBLE APPEARANCE AND ODOR INFORMATION PASTE - NO ODOR FLASH POINT (METHOD USED) 250F FLAMMABLE LIMITS-LEL= N/A UEL= N/A EXTINGUISHING MEDIA CO2, DRY CHEMICAL, FOAM, WATER OR SPRAY (FOG) SPECIAL FIRE FIGHTING PROCEDURES FIRE FIGHTERS SHOULD WEAR SCBA AND FULL PORTECTIVE CLOTHING UNUSUAL FIRE AND EXPLOSION HAZARDS N/AINCOMPATIBILITY (MATERIALS TO AVOID) ACIDS AND ALKALIES HAZARDOUS DECOMPOSITION PRODUCTS CARBON DIOXIDE, CARBON MONOXIDE, FLUORIDE FUMES AND FILLER METAL OXIDE FUMES

CONDITIONS TO AVOID/POLYMERIZATION N/A

WILL HAZARDOUS POLYMERIZATION OCCUR



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IS THE PRODUCT STABLE
YES, AT ROOM TEMPERATURE

CONDITIONS TO AVOID/STABILITY
HIGH TEMPERATURE DURING STORAGE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

DIKE UP LARGE SPILLS, USE AN ASORBENT MATERIAL FOR CLEAN UP. WEAR RUBBER

SWEEP UP AND PLACE IN CLOSED, LABELED CONTAINER, FOR RECYCLING OR DISPOSAL.

AVOID HIGH TEMPERATURES.

#### WASTE DISPOSAL METHOD

DISPOSAL OF WASTE PRODUCT MAY BE SUBJECT TO FEDERAL, STATE AND LOCAL REGULATIONS. USERS SHOULD REVIEW THEIR OWN OPERATIONS IN TERMS OF APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS, THEN CONSULT WITH APPROPRIATE REGULATORY AGENCIES BEFORE DISCHARGE OF DISPOSING OF THE WASTE MATERIAL.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* EXPOSURE CONTROL INFORMATION \*\*\*\*\*\*\*\*\*\*\*\*\*

VENTILATION

LOCAL EXHAUST AIR FLOW @100 LFT/MN MECHANICAL (GEN) 2000 CU FT/MIN SPECIAL..... N/A OTHER...... N/A

### RESPIRATORY PROTECTION

IN CONFINED SPACE, USE AN AIRLINE RESPIRATOR OR HOSE MAS NIOSH APPROVED OR SELF CONTAINED.

PROTECTIVE GLOVES
HEAT PROTECTIVE RUBBER

### OTHER PROTECTIVE EQUIPMENT

SAFETY GOGGLES OR FULL FACE SHIELD. NORMAL CLOTHING FOR TORCH BRAZING (AVOID FLAMMABLE FABRICS).

OTHER ENGINEERING CONTROLS EYE BATH AND SAFETY SHOWER.

WORK PRACTICES
GOOD HOUSEKEEPING PRACTICES

HYGENIC PRACTICES



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WASH HAND BEFORE EATING, DRINKING AND SMOKING. THE DRINKING WATER SUPPLY IS PROHIBITED UNDER FEDERAL LAW IN WORKING AREA. DO NOT PERMIT EATING, DRINKING, OR USING TOBACCO PRODUCTS WHILE HANDLING THIS MATERIAL.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE N/A

MAINTENANCE PRECAUTIONS
REFER TO ANSI Z49.1 "SAFETY IN CUTTING AND WELDING"

OTHER PRECAUTIONS N/A

OTHER COMMENTS

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