



Manufacturer of Precision Tools and Equipment

SEPTEMBER 12, 2012

ESSLINGER & CO.
1165 MEDALLION DRIVE
ST. PAUL, MN 55120

290015

Re: Material Safety Data Sheet

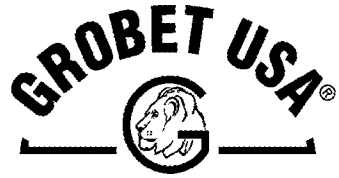
Dear Valued Customer,

Please note that the products supplied by Grobet File Co. on the attached list, are required by the U.S. Department of Labor, division of Occupational Safety and Health Administration, to have a Material Safety Data Sheet. We are enclosing herewith the MSDS for those products.

We trust this information meets with your requirements, however, should you have any additional questions please do not hesitate to contact us.

Yours very truly,

GROBET FILE CO. OF AMERICA, INC.



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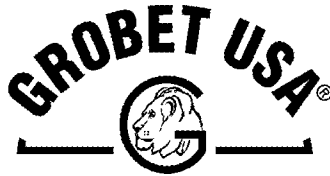
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MSDS Required List

Item Code	Item Description
54.808	SOLDER-TIX



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MANUFACTURE INFORMATION

GROBET FILE CO. OF AMERICA, INC.
750 WASHINGTON AVE.
CARLSTADT, NJ 07072

EMERGENCY PHONE.....: 800-255-3924
PREPARATION/REVISION DATE: 11/20/11

TRADE NAME/SYNONYMS...: SOLDER-TIX
CHEMICAL NAME/SYNONYMS:
CHEMICAL FAMILY.....:
FORMULA.....:
PRODUCT CODE.....: 54.808

***** HAZARDOUS INGREDIENTS *****

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

CHEMICAL/COMMON NAME	CAS-NUMBER	%	PEL-OSHA	TLV-ACGIH
NICKEL/PLATINUM (INTRODUCED ELECTROLITICLY)	N/A	N/A	N/A	TRACE
INDIUM	N/A	N/A	N/A	.1 MG/M3
LEAD	N/A	N/A	N/A	.05MG/M3
TIN	N/A	N/A	N/A	2.0MG/M3

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

***** HEALTH HAZARD DATA *****

HEALTH EFFECTS (ACUTE AND CHRONIC)
INHALATION, SKIN, AND INGESTION.

PRIMARY ROUTES OF ENTRY
INHALATION, SKIN, AND INGESTION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
NAUSEA, VOMITING, STOMACH UPSET, COUGH, DRY THROAT. MAY CAUSE LUNG IRRITATION
AND/OR MECHANICAL IRRITATION OF EYES AND SKIN.

EMERGENCY FIRST AID PROCEDURES
MOVE EXPOSED PERSON TO FRESH AIR. RINSE EYES WITH SOLUTION OF BICARBONATE OF
SODA AND WATER. WASH AREAS IN CONTACT WITH SKIN.

***** CHEMICAL DATA *****

BOILING POINT(F)....	N/A	SPECIFIC GRAVITY(WATER=1).....	8.6
VAPOR PRESSURE(MMHG)	N/A	PERCENT VOLATILE BY VOLUME(%).....	N/A
VAPOR DENSITY(AIR=1)	N/A	EVAP RATE(BUTYLACETATE =1)	N/A



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SOLUBILITY IN WATER.. INSOLUBLE BONDING/HOLDING STRENGTH 4000 LBS P.S.I

APPEARANCE AND ODOR INFORMATION

SILVER WHITE/NO ODOR

***** PHYSICAL HAZARD DATA *****

FLASH POINT (METHOD USED) N/A FLAMMABLE LIMITS-LEL= N/A UEL= N/A

EXTINGUISHING MEDIA

N/A

SPECIAL FIRE FIGHTING PROCEDURES

USE NIOSH/MSDA APPROVED SELF/CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING IF INVOLVED IN FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS

UNKOWN

***** REACTIVITY DATA *****

INCOMPATIBILITY (MATERIALS TO AVOID)

ACETONITRITE, DINITROGEN TETRAOXIDE, MERCURY (11) BROMIDE.

HAZARDOUS DECOMPOSITION PRODUCTS

MAY YIELD OXIDES OF CONSTITUENTS WHEN OVERHEATED.

WILL HAZARDOUS POLYMERIZATION OCCUR

WILL NOT OCCUR

CONDITIONS TO AVOID/POLYMERIZATION

OVERHEATING

IS THE PRODUCT STABLE

KEEP DUST AWAY FROM SOURCES OF IGNITATION. STORE AWAY FROM INCOMPATIBLE MATERIALS.

CONDITIONS TO AVOID/STABILITY

ACCUMULATIONS OF DUST.

***** SPILL AND LEAK PROCEDURES *****

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED



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A CLEANUP PROCEDURE WHICH MINIMIZES EXPOSURE IS REQUIRED. PLACE ALL MATERIALS IN CLOSED CONTAINERS. DO NOT COMPRESSED AIR. USE APPROVED RESPRITORY PROTECTION.

WASTE DISPOSAL METHOD

IF HAZERDOUS UNDER 40 CFR 261, SUBPARTS B&C, MATERIAL MUST BE TREATED OR DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40 CFR 264 OR 265.

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

VENTILATION

LOCAL EXHAUST	RECOMMENDED	MECHANICAL (GEN)	RECOMMENDED
SPECIAL.....	N/A	OTHER.....	N/A

RESPIRATORY PROTECTION

MSHA OR NIOSH APPROVED RESPIRATORS.

PROTECTIVE GLOVES

RECOMMENDED.

EYE PROTECTION: RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT

COVERALLS, LAB COAT.

OTHER ENGINEERING CONTROLS

N/A

WORK PRACTICES

GOOD HOUSEKEEPING PROCEDURES.

HYGENIC PRACTICES

MAINTAIN GOOD HOUSEKEEPING TECHNIQUES.

***** SPECIAL PRECAUTIONS *****

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

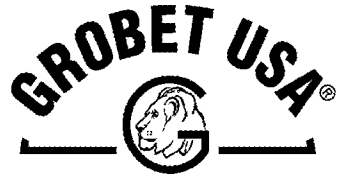
NORMAL SAFETY AND WORK PRATICES THAT ARE CONSISTENT WITH GOOD PERSONAL HYGIENE.

MAINTENANCE PRECAUTIONS

N/A

OTHER PRECAUTIONS

LOCAL EXHAUST VENTILATION IS REQUIRED FOR MELTING, GRINDING, SCREENING, SOLDERING, OR OTHER OPERATIONS WHERE EXESSIVE EXPOSURE MAY OCCUR.



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OTHER COMMENTS

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH. NO WARRANTY EXPRESS OR IMPLIED IS MADE.