



Manufacturer of Precision Tools and Equipment

PAGE 1

MANUFACTURE INFORMATION

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

EMERGENCY PHONE.....: 800-255-3924
PREPARATION/REVISION DATE: 07/21/99

TRADE NAME/SYNONYMS...: SOFT SOLDERING FLUX 4 OZ
CHEMICAL NAME/SYNONYMS: SOF SOLDER FLUX
CHEMICAL FAMILY.....:
FORMULA.....:
PRODUCT CODE.....: 54.423

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

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

CHEMICAL/COMMON NAME	CAS-NUMBER	%	PEL-OSHA	TLV-ACGIH
GLUTAMIC ACID HYDROCHLORIDE	15767-75-6	5-10	N/A	N/A
UREA	57-13-6	4-10	N/A	N/A
WATER	7732-18-5	>80	N/A	N/A

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

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

HEALTH EFFECTS (ACUTE AND CHRONIC)

ACUTE; REDDENING OF THE EYES AND SKIN. ACID STOMACHE IF INGESTED
CHRONIC;N/A

PRIMARY ROUTES OF ENTRY

INHALATION,EYES,SKIN,INGESTION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

NONE KNOWN

EMERGENCY FIRST AID PROCEDURES

INHALATION; REMOVE TO FRESH AIR
EYES; WASH FOR 10 MINUTES, CALL A PHYSICIAN.
SKIN; WASH THOROUGHLY WITH WATER.
INGESTION; DRINK WATER OR MILK, CALL A PHYSICIAN.

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

BOILING POINT(F)....	220F	SPECIFIC GRAVITY(WATER=1).....	1.04
VAPOR PRESSURE(MMHG)	N/A	PERCENT VOLATILE BY VOLUME(%).....	85
VAPOR DENSITY(AIR=1)	N/A	EVAP RATE(WATER =1)	0.9



Manufacturer of Precision Tools and Equipment

PAGE 2

SOLUBILITY IN WATER.. UNLIMITED

APPEARANCE AND ODOR INFORMATION
BLUE TRANSPARENT LIQUID, LEMON ODOR

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

FLASH POINT (METHOD USED) NONE FLAMMABLE LIMITS-LEL= N/A UEL= N/A

EXTINGUISHING MEDIA
NOT NEEDED

SPECIAL FIRE FIGHTING PROCEDURES
NORMAL CAUTION WHEN DEALING WITH CHEMICALS

UNUSUAL FIRE AND EXPLOSION HAZARDS
WILL RELEASE SMALL AMOUNTS OF HYDROCHLORIC ACID FUMES UPON DECOMPOSITION

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

INCOMPATIBILITY (MATERIALS TO AVOID)
METALS, OXIDIZING MATERIALS

HAZARDOUS DECOMPOSITION PRODUCTS
SMALL AMOUNTS OF HYDROCHLORIC ACID.

WILL HAZARDOUS POLYMERIZATION OCCUR
WILL NOT OCCUR

CONDITIONS TO AVOID/POLYMERIZATION
NONE

IS THE PRODUCT STABLE
YES

CONDITIONS TO AVOID/STABILITY
NONE

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
NEUTRALIZE WITH SODA ASH OR SODIUM BICARBONATE AND WASH WITH PLENTY OF WATER



Manufacturer of Precision Tools and Equipment

WASTE DISPOSAL METHOD

FIRST NEUTRALIZE WITH SODA ASH OR SODIUM BICARBONATE, DILUTE WITH WATER AND DISPOSE IN ACCORDANCE LOCAL AND STATE EPA REGULATIONS.

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

VENTILATION

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

RESPIRATORY PROTECTION

NIOSH APPROVED RESPIRATOR

PROTECTIVE GLOVES

RECOMMENDED

OTHER PROTECTIVE EQUIPMENT

SAFETY GLASSES/GOGGLES

OTHER ENGINEERING CONTROLS

N/A

WORK PRACTICES

N/A

HYGENIC PRACTICES

N/A

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

STORE AWAY FROM HEAT TO PROTECT PLASTIC CONTAINERS.

MAINTENANCE PRECAUTIONS

N/A

OTHER PRECAUTIONS

NONE

OTHER COMMENTS

N/A