



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: 08/30/90

TRADE NAME/SYNONYMS...: STAY CLEAN FLUX 16 OZ
CHEMICAL NAME/SYNONYMS:
CHEMICAL FAMILY.....:
FORMULA.....:
PRODUCT CODE.....: 54.454

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

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

CHEMICAL/COMMON NAME	CAS-NUMBER	%	PEL-OSHA	TLV-ACGIH
ZINC CHLORIDE	7646-85-7	<40	1.0	1.0
HYDROGEN CHLORIDE	7647-01-1	<15	7.0	7.5
AMMONIUM CHLORIDE	12125-02-9	N/A	10.0	10.0
WATER	7732-18-5	N/A	N/L	N/L
METHANOL	67-56-1	<5	260.0	260.0

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

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

HEALTH EFFECTS (ACUTE AND CHRONIC)
EYE AND RESPIRATORY IRRITANT

PRIMARY ROUTES OF ENTRY
INHALATION, INGESTION, EYE, SKIN

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
NONE KNOWN

EMERGENCY FIRST AID PROCEDURES
EYES: FLUSH WITH WATER AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.
SKIN: FLUSH WITH WATER
INHALATION: MOVE TO FRESH AIR
INGESTION: GIVE PLENTY OF WATER OR MILK. DO NOT INDUCE VOMITING. CALL
PHYSICIAN IMMEDIATELY.

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

BOILING POINT(F)....	N/A	SPECIFIC GRAVITY(WATER=1).....	N/A
VAPOR PRESSURE(MMHG)	N/A	PERCENT VOLATILE BY VOLUME(%).....	N/A



Manufacturer of Precision Tools and Equipment

PAGE 2
=1) N/A

VAPOR DENSITY(AIR=1) N/A EVAP RATE(N/A

SOLUBILITY IN WATER.. COMPLETELY

APPEARANCE AND ODOR INFORMATION

CLEAR, COLORLESS LIQUID WITH AN ACIDIC ODOR.

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

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

EXTINGUISHING MEDIA

N/I

SPECIAL FIRE FIGHTING PROCEDURES

FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING AND SCBA

UNUSUAL FIRE AND EXPLOSION HAZARDS

N/A

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

INCOMPATIBILITY (MATERIALS TO AVOID)

CYANIDES

HAZARDOUS DECOMPOSITION PRODUCTS

MAY RELEASE HCl GAS WHEN MIXED WITH ZINC CHLORIDE. IF COMBINED WITH SULFIDES
LIQUID FLUX MAY RELEASE H₂S GAS.

WILL HAZARDOUS POLYMERIZATION OCCUR

NO

CONDITIONS TO AVOID/POLYMERIZATION

NONE

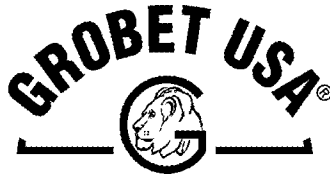
IS THE PRODUCT STABLE

YES

CONDITIONS TO AVOID/STABILITY

CYANIDES, ZINC CHLORIDES AND SULFIDES

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



Manufacturer of Precision Tools and Equipment

PAGE 3

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
CONTAIN SPILL, ABSORB, SWEEP UP, DISPOSE, FLUSH AREA WITH WATER TO CHEMICAL
SEWER. DISPOSE OF IN ACCORDANCE WITH ALL STATE, LOCAL AND FEDERAL REG.S

WASTE DISPOSAL METHOD
AS PER FEDERAL, STATE AND LOCAL REGULATIONS.

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

VENTILATION

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

RESPIRATORY PROTECTION

USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN BRAZING IN A
CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE
BELOW TLV.

PROTECTIVE GLOVES
YES

OTHER PROTECTIVE EQUIPMENT

WEAR HEAD AND BODY PROTECTION TO PREVENT INJURY FROM SPLASHING, RADIATION,
SPARKS, AND FLAME. AT MINIMUM THIS INCLUDES WELDERS GLOVES, AND PROTECTIVE
FACE SHIELD AND MAY INCLUDE ARM PROTECTORS, APRONS, HATS, SHOULDER
PROTECTION, AS WELL AS DARK SUBSTANTIAL CLOTHING.
WEAR SAFETY GLASSES, GOGGLES OR FACE SHIELD WITH FILTER LENS OF APPROPRIATE
SHADE NUMBER.

OTHER ENGINEERING CONTROLS
N/A

WORK PRACTICES
ROUTINE HOUSEKEEPING

HYGENIC PRACTICES
MAINTAIN GOOD PERSONAL HYGENE PRACTICES.

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
STORE IN CLOSED CONTAINERS UNDER NORMAL STORAGE AND HANDLING CONDITIONS

MAINTENANCE PRECAUTIONS
N/A



Manufacturer of Precision Tools and Equipment

PAGE

4

OTHER PRECAUTIONS

N/A

OTHER COMMENTS

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