



Manufacturer of Precision Tools and Equipment

OCTOBER 15, 2009

FIRE MOUNTAIN GEMS
ATTN: A/P # 2091
ONE FIRE MOUNTAIN WAY
GRANT PASS, OR 97526

315802

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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MSDS Required List

Item Code	Item Description
54.513	GRIFFITH SELF PICKLE FLUX 16OZ



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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: 08/03/99

TRADE NAME/SYNONYMS...: SELF PICKLING FLUX 16 OZ
CHEMICAL NAME/SYNONYMS: SELF PICKLING FLUX
CHEMICAL FAMILY.....: BORATES AND PHOSPHATES
FORMULA.....:
PRODUCT CODE.....: 54.513

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

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

CHEMICAL/COMMON NAME	CAS-NUMBER	%	PEL-OSHA	TLV-ACGIH
BORAX	N/I	3.1	N/I	N/I
BORIC ACID	N/I	1.0	N/I	N/I
AMMONIUM PHOSPHATE (BY WEIGHT)	N/II	N/I	3.1	N/I

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

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

HEALTH EFFECTS (ACUTE AND CHRONIC)

EYES; IRRITATING

SKIN; MAY CAUSE SLIGHT SKIN IRRITATION ESPECIALLY IF DAMAGED

INGESTION; LARGE AMOUNT INGESTION MAY CAUSE NAUSEA, EMESIS, DIARRHEA & ERYTHEMA

PRIMARY ROUTES OF ENTRY

EYES, SKIN, INGESTION

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

N/I

EMERGENCY FIRST AID PROCEDURES

EYES; FLUSH WITH TEPID WATER FOR 15 MINUTES.

SKIN; FLUSH WITH WATER

INGESTION; INDUCE VOMITING IF LARGE AMOUNTS HAVE BEEN INGESTED. DRINK LARGE AMOUNTS OF MILK OR WATER AND CONSULT A PHYSICIAN.

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

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



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=1) N/I

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

SOLUBILITY IN WATER.. AQUEOUS SOLUTION

APPEARANCE AND ODOR INFORMATION

YELLOW LIQUID WITH SLIGHT AMMONIA ODOR

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

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

EXTINGUISHING MEDIA

N/A

SPECIAL FIRE FIGHTING PROCEDURES

NONE- INGREDIENTS TEND TO BE FIRE RETARDANT.

UNUSUAL FIRE AND EXPLOSION HAZARDS

NONE

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

INCOMPATIBILITY (MATERIALS TO AVOID)

ELEMENTAL POTASSIUM

HAZARDOUS DECOMPOSITION PRODUCTS

N/I

WILL HAZARDOUS POLYMERIZATION OCCUR

WILL NOT OCCUR

CONDITIONS TO AVOID/POLYMERIZATION

N/I

IS THE PRODUCT STABLE

YES

CONDITIONS TO AVOID/STABILITY

N/I

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED



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WASH WITH WATER—SMALL AMOUNTS CAN BE DISPOSED IN A SANITARY SEWER

WASTE DISPOSAL METHOD

LIQUID DISPOSAL SITE OR SANITARY SEWER.

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

VENTILATION

LOCAL EXHAUST	SUGGESTED	MECHANICAL (GEN)	N/I
SPECIAL.....	N/I	OTHER.....	N/I

RESPIRATORY PROTECTION

LOCAL EXHAUST RECOMMENDED

PROTECTIVE GLOVES

NONE UNLESS SKIN IS DAMAGED

OTHER PROTECTIVE EQUIPMENT

EYE PROTECTION SUGGESTED

OTHER ENGINEERING CONTROLS

N/I

WORK PRACTICES

N/I

HYGENIC PRACTICES

N/I

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

NO SPECIAL PRECAUTIONS

MAINTENANCE PRECAUTIONS

N/I

OTHER PRECAUTIONS

N/I

OTHER COMMENTS

N/I