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EAST WEST RESEARCH INC. -- LIBRA FLUX 7220 -- 3439-00-288-0868

============= Product Identification ==============

Product ID:LIBRA FLUX 7220

MSDS Date:09/01/1988

FSC:3439

NIIN:00-288-0868

MSDS Number: BGSMT === Responsible Party ===

Company Name: EAST WEST RESEARCH INC.

Address:32 GALLI DRIVE

City:NOVATO State:CA ZIP:94949 Country:US

Info Phone Num:415-883-2517

Emergency Phone Num:415-883-2517

CAGE:60217 === Cont

ractor Identification ===

Company Name: EAST WEST RESEARCH

Address:32 GALLI DRIVE

Box:City:NOVATO

State:CA

ZIP:94947-5791 Country:US

Phone:415-883-2517

CAGE:60217

======= Composition/Information on Ingredients ========

Ingred Name:POTASSIUM BIFLUORIDE (POTASSIUM HYDROGEN FLUORIDE)

CAS:7789-29-9

RTECS #:TS6650000 Fraction by Wt: 10.-30%. OSHA PEL:2.5 MG/M3 (F)

ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name: POTASSIUM FLUOBORATE (POTASSIUM BORO FLUORIDE)

CAS:14075-53-7 RTECS #:ED2800000

F

raction by Wt: 5.-20%. OSHA PEL:2.5 MG/M3 (F) ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name: POTASSIUM TETRABORATE

CAS:1332-77-0

Fraction by Wt: 15.-25%.

OSHA PEL:NONE ESTABLISHED ACGIH TLV:NONE ESTABLISHED

Ingred Name:POTASSIUM FLUORIDE

CAS:7789-23-3

RTECS #:TT0700000 Fraction by Wt: 5.-15%. OSHA PEL:2.5 MG/M3 (F)

ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name:BORIC ACID

CAS:10043-35-3 RTECS #:ED4550000 Fraction by Wt: 25.-40%.

OSHA PEL:NONE ESTABLISHED ACGIH TLV:NONE ESTABLISHED

Ingred Name:WATER

CA

S:7732-18-5

RTECS #:ZC0110000 Fraction by Wt: 15.-35%.

OSHA PEL:NONE ESTABLISHED ACGIH TLV:NONE ESTABLISHED

========= Hazards Identification ==============

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:PRODUCT IS CORROSIVE TO BODY TISSUES.
IT WILL CAUSE FLUORIDE BURNS AND CHRONIC FLUORIDE POISONING. AS RECEIVED,IT POSES NO INHALATION HAZARD,BUT IN USE HAZARDOUS FLUOR

IDES MAY BE EVOLVED. CHRONIC EXPO SURE MAY DAMAGE KIDNEYS, LIVER, LUNGS OR CAUSE FLUORIOSIS. Effects of Overexposure:FLUORIDES PRODUCE SEVERE BURNS NOT IMMEDIATELY PAINFUL OR APPARENT. CHRONIC EXPOSURES MAY CAUSE WEIGHT LOSS, BRITTLE BONES, ANEMIA, WEAK JOINTS. (NOTE: BURNS MAY BE AVOIDED WITH A LITTLE CARE, BUT ARE SEVE RE AND SLOW TO HEAL). Medical Cond Aggravated by Exposure: WEAKNESS OF LUNGS, LIVER, KIDNEYS, FLUORIOSIS. First Aid:EYE:FLUSH WITH WATER 15 MIN. SKIN:WASH WITH SOAP & WATER. INHALED: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION OR OXYGEN AS NEEDED. INGESTED:DO NOT INDUCE VOMITING. GIVE LARGE QUANTITY OF MILK OR WATER. (NOTHING BY MOUTH IF UNCONSCIOUS.) GET IMMEDIATE MEDICAL ATTENTION. IF ANY IRRITATION PERSISTS OR IS SEVERE, GET PROMPT MEDICAL CARE, ESPECIALLY IF FLUORIDE BURN IS SUSPECTED. ============ Fire Fighting Measures ========================= Flash Poin t:NONE Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures: WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. Unusual Fire/Explosion Hazard: WILL RELEASE TOXIC FLUORIDES IN FIRE CONDITIONS. ========= Accidental Release Measures ============= Spill Release Procedures: WIPE UP PASTE AVOIDING PERSONAL CONTACT. FLUSH AREA WITH WATER. Neutralizing Agent:LIME ========= ====== Handling and Storage =========== Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA.DO NOT STORE IN GLASS OR PORCELAIN CONTAINERS.

Other Precautions: REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.

====== Exposure Controls/Personal Protection ========

Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR EQUIPPED WITH CARTRIDGE FOR FLUORIDE VAPORS/MISTS OR SUPPLIED AIR RESPIRATOR IF EXPOSED ABOVE TLV/PEL.

Ven

tilation: USE NORMAL ROOM VENTILATION SUPPLEMENTED WITH LOCAL EXHAUST TO CONTROL EXPOSURES BELOW PEL/TLV. Protective Gloves: RUBBER, PLASTIC, OTHER IMPERVIOUS. Eye Protection: SAFETY GLASSES OR SPLASH GOGGLES. Other Protective Equipment: RUBBER APRON OR OTHER AS REQUIRED TO MINIMIZE EXPOSURE FOR TASK AT HAND. Work Hygienic Practices: USE STRICT CHEMICAL HYGIENE PRACTICE. AVOID ALL CONTACT IF POSSIBLE.WASH THOROUGHLY AFTER USING. Supplemental Safety and Health ======= Physical/C hemical Properties ======== HCC:C3 Spec Gravity: 1.6 Evaporation Rate & Reference: 0.3 (WATER) Solubility in Water: MODERATE Appearance and Odor: WHITE ODORLESS PASTE. Percent Volatiles by Volume:30 ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES GLASS, PORCELAIN. Stability Condition to Avoid: EXCESS HEAT.

Hazardous Decomposition Products: WILL RELEASE HYDROFLUORIC ACID AND/OR BORON TRIFLUORIDE.

Disposal Considerations ==========

Waste Disposal Methods: DISPOSE I/A/W FEDERAL, STATE, LOCAL REGULATIONS.

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