

MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-133/1332-77-0.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

1332-77-0

Code:

M

RTECS:

Code:

X

Name:

POTASSIUM BORATE

Other REC Limits:

NONE RECOMMENDED

OSHA PEL:

NOT ESTABLISHED

Code:

M

OSHA STEL:

Code:

ACGIH TLV:

NOT ESTABLISHED

Code:

M N/P

ACGIH STEL:

EPA Rpt Qty: DOT Rpt Qty: Ozone Depleting Chem

Code:

1 ACGIH STEL:

Control Measures

Respiratory Protection:

IF THE WORK STATION IS NOT PROPERLY VENTILATED TO EXHAUST ALL FUMES AND VAPORS, USE A NIOSH/MSHA APPROVED MASK.

Ventilation:

MAINTAIN AIR FLOW AWAY FROM USER TO REMOVE ALL FUMES AND DUSTS, SO THAT THE PEL IS NEVER EXCEEDED.

Protective Gloves:

CHEMICAL/ACID IMPERVIOUS.

Eye Protection:

CHEMICAL TIGHT SAFETY GOGGLES

Other Protective Equipment:

Equipment CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:

WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health:

DO NOT WEAR CONTACT LENSES. 4

Health Hazards Data

LD50/LC50 Mixture:

NOT GIVEN FOR PRODUCT AS A WHOLE

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

NO

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION. LARGE AMOUNTS MAY BE FATAL. MAY BE ABSORBED THROUGH SKIN RESULTING IN SYSTEMIC POISONING. INHALATION MAY CAUSE RESPIRATORY TRACT AND MUCOUS MEMBRANE IRRITATION. SKIN CONTACT MAY CAUSE FLUORIDE BURNS. EYE CONTACT CAUSES IRRITATION AND MAY CAUSE BURNS.

Explanation Of Carcinogenicity:

THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Signs And Symptoms Of Overexposure:

ABDOMINAL PAIN, DIARRHEA, VOMITING, EXCESS SALIVATION, THIRST, PERSPIRATION, PAINFUL SPASMS OF THE LIMBS, DEATH, RESPIRATORY TRACT IRRITATION, MUCOUS MEMBRANE IRRITATION, NASAL DISCHARGE, NOSEBLEEDS, COUGHING SORE THROAT, LABORED BREATHING, PULMONARY EDEMA, FLUORIDE BURNS, EYE IRRITATION, BURNS.

Medical Cond Aggravated By Exposure:

PROLONGED OR REPEATED INHALATION AND INGESTION MAY CAUSE DELAYED INJURY INVOLVING THE KIDNEYS AND THE BLOOD, GASTROINTESTINAL, NERVOUS AND REPRODUCTIVE SYSTEMS.

First Aid:

EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. CALL PHYSICIAN OR POISON CONTROL ASAP.

Spill Release Procedures:

WEARING FULL PROTECTIVE CLOTHING, CONTROL SPILL SOURCE AND VENTILATE AREA. SOAK UP SPILL USING ABSORBENT. SCOOP INTO CONTAINER.

Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:

PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Handling And Storage Precautions:

3 STORE FLUX IN A COOL, DRY LOCATION AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED. AVOID CONTACT WITH ANY DUSTS, MISTS OR FUMES.

Other Precautions:

DO NOT EAT, DRINK OR SMOKE IN WORK AREA. USE WITH ADEQUATE VENTILATION.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:

Flash Point Text:

NONFLAMMABLE

Autoignition Temp:

N/K

Lower Limits:

NOT GIVEN

Upper Limits:

NOT GIVEN

Extinguishing Media:

ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER SPRAY

Fire Fighting Procedures:

FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER.

Unusual Fire/Explosion Hazard:

NOT A FIRE OR EXPLOSION HAZARD. HOWEVER, TOXIC AND CORROSIVE FLUORIDE COMPOUNDS MAY BE RELEASED IN A FIRE SITUATION.

Physical/Chemical Properties

HCC:

N1

NRC/State IC No:

Net Prop WT For Ammo:

N/P

Boiling Point:

N/P

B.P. Text:

NOT GIVEN

Melt / Freeze Pt:

NOT GIVEN

Decomp Temp:

NOT GIVEN

Decomp Text:

NOT GIVEN

Vapor Pres:

NOT GIVEN

Vapor Density:

NOT GIVEN

Volatile Org Content %:

N/K

Spec Gravity:

1.49

VOC Pounds/Gallon:

NOT GIVEN

PH:

N/K

VOC Grams/Liter:

NOT GIVEN

Viscosity:

N/P

Evaporation Rate & Reference:

NOT GIVEN

Completeness:

NOT GIVEN

Appearance and Odor:

WHITE PASTE WITH NO CHARACTERISTIC ODOR

Total Volatiles by Volume:

70.7

Corrosion Rate:

UNKNOWN

Reactivity Data:

Stability Indicator:

YES

Stability Condition To Avoid:

TEMPERATURES ABOVE 60 OR AT 225C

Materials To Avoid:

STRONG ACIDS AND ALKALINES.

Hazardous Decomposition Products:

HYDROCHLORIC ACID, ZINC OXIDE.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

NONE. WILL NOT OCCUR.

Toxicological Information

Information:

N/P

MSDS Transport Information

Information:

N/P

Regulatory Information

Sara Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Other Information

Other Information:

N/P

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