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NORTH STRONG SCIENTIFIC INC. -- BORIC ACID -- 6750-00-408-5898

Product ID:BORIC ACID MSDS Date:09/22/1986 FSC:6750 NIIN:00-408-5898 **MSDS Number: BHZGH** === Responsible Party === Company Name:NORTH STRONG SCIENTIFIC INC. Address:7322 WESTMORE ROAD City:ROCKVILLE State:MD ZIP:20850 Country:US Info Phone Num:301-762-2121 Emergency Phone Num:301-762-2121 Preparer's Na me:DGSC-SSH-HRN CAGE:0BSN0 === Contractor Identification === Company Name:NORTH STRONG SCIENTIFIC INC. Address:7322 WESTMORE ROAD Box:City:ROCKVILLE State:MD ZIP:20850 Country:US Phone:301-762-2121 CAGE:0BSN0

Ingred Name:BORIC ACID CAS:10043-35-3 RTECS #:ED4550000 Fraction by Wt: 100% OSHA PEL:15MG/CUM-BORON OXIDE ACGIH TLV:10MG/CUM-BORON OXIDE

LD50 LC50 M

ixture:LD50 ORAL RAT=2650MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYE:ACUTE,IRRITATION;CHRONIC,CONJUNCTIVITIS.EDEMA. SKIN:ACUTE, EXCORIATIONS, FEVER, ANURIA; CHRONIC, ANOREXIA, WEIGHT LOSS, VOMIT, DIARRHEA, RASH, ALOPECIA, CONVULSIONS, ANEMIA. INHALATION: ACUTE, MUCOUS MEMBRANE I RRITATION, EXCORIATION, FEVER, ANURIA; CHRONIC: ANOREXIA, WEIGHT LOSS, VOMIT, DIARRHEA, RASH, *SEE SIGNS & SYMPT **OMS OF O'EXPOSURE*** Effects of Overexposure: CONT'D FROM HEALTH HAZARDS, INHALATION, CHRONIC: ALOPECIA, CONVULSIONS, ANEMIA. INGESTION: NE PHROTOXIC, NAUSEA, HEMATEMESIS, BLOODY DIARRHEA, EPIGASTRIC PAIN.HEMORRHAGIC GASTRITIS, WEAKNESS, ANOREXIA, LETHARGY, HEAD ACHE, INSOMNIA; CHRONIC, ANOREXIA, WEIGHT LOSS, ABDOMINAL DISCOMFORT, NAUSEA, VOMIT, MILD DIARRHEA, GASTRIC ULCER, RASH, RED TONGU Medical Cond Aggravated by Exposure: ANY MEDICAL CONDITION AFFECTING SAME ORGANS AS THOSE AFFECTED BY OVEREXPOSU RE.

First Aid:EYES:IMMEDIATELY FLUSH WITH WATER FOR 15-20MIN.SEE DOCTOR IMM;SKIN:REMOVE CONTAMINATED CLOTHING & SHOES,WASH WITH SOAP & WATER.SEE DOCTOR IMM;INHALATION:IMMEDIATELY REMOVE TO FRESH AIR.GIVE CPR/O*2 IF NEEDED.SEE DOCTOR IMM;INGESTION:MAINTAIN RESPIRATION.REMOVE BY IPECAC EMESIS FOLLOWEDBY ACTIVATED CHARCOAL.GASTRIC LAVAGE MAY BE USEFUL.TREAT ANURIA.SEE DOCTOR IMMEDIATELY.

Extinguishing Media:DRY CHEMICAL,CO*2,WATER SPRAY,FOAM Fire Fighting Procedures:DO NOT USE WATER DIRECTLY ON MATERIAL.COOL FIRE EXPOSED CONTAINERS WITH WATER.AVOID BREATHING CORROSIVE DUSTS & FUMES.KEEP UPWIND.MOVE CONT.FROM FIRE IF POSSIBL Unusual Fire/Explosion Hazard:CORROSIVE DUSTS AND FUMES GENERATED FROM FIRE EXPOSED MATERIAL.

Spill Release Procedures:SWE

EP UP & PLACE IN SUITABLE CLEAN, DRY CONTAINERS FOR LATER DISPOSAL. DO NOT FLUSH WITH WATER. KEEP UNNECESSARY PEOPLE AWAY.
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Handling and Storage Precautions:STORE IN COOL,DRY AREA. PROTECT FROM HEAT,IMPACT,FIRE.
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Respiratory Protection: CHEMICAL CARTRIDGE RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE WITH A HIGH EFFICIENCY PARTICULATE FILTER & FULL
FACEPIECE, JOINTLY APPROVED BY NIOSH/MSHA. Ventilation:LOCAL EXHAUST OR GENERAL DILUTION VENTILATION TO KEEP BELOW TLV.
Protective Gloves: IMPERVIOUS
Eye Protection:DUST-RESISTANT GOGGLES
Other Protective Equipment: IMPERVIOUS CLOTHING & EQUIPMENT TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.REMOVE & LAUNDER CONTAMINATED CLOTHING.
Supplemental Safety and Health
MELTING POINT:DECOMPOSES. SIGNS & SYMPTOMS OF OVEREXPOSURE:SEE CASE HISTORY 88106A FOR MORE INFORMATION. *NOTE* MSDS BUILT BY DGSC-SSH FROM MATERIAL OF SPECTRUM CHEMICAL, NSN 6750-00-174-5454.
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Melt/Freeze Pt:M.P/F.P Text:365F,165C Spec Gravity:1.435 pH:ACID
Solubility in Water:6.35% @ 86F,30C
Appearance and Odor:ODORLESS,COLORLESS TRICLINIC CRYSTALS OR WHITE

GRANULAR POWDER.

Stability Indicator/Materials to Avoi

d:YES

ACETIC ANHYDRIDE: EXPLOSIVE REACTION ON HEATING; POTASSIUM: EXPLOSIVE REACTION ON IMPACT; IRON: CORROSIVE WHEN MOIST.

Stability Condition to Avoid:HEAT,IMPACT,MOISTURE. MAY BURN BUT DOES NOT IGNITE READILY.

Hazardous Decomposition Products:LOSES WATER AT 212-320F FORMING METABORIC ACID,THEN PYROBORIC ACID & FINALLY BORIC ANHYDRIDE.

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL,STA TE & LOCAL REGULATIONS.

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