

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

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Product Identification  
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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 Name: 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

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Composition/Information on Ingredients  
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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

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Hazards Identification  
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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

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===== First Aid Measures =====

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.

===== Fire Fighting Measures =====

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.

===== Accidental Release Measures =====

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  
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Handling and Storage Precautions: STORE IN COOL, DRY AREA. PROTECT FROM  
HEAT, IMPACT, FIRE.

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Exposure Controls/Personal Protection  
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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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Physical/Chemical Properties  
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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.

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid

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.

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

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

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