

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 LC5

0 Mixture: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 &SY

SYMPTOMS OF OVEREXPOSURE*

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 OVEREXP
OSURE.

===== 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:

SWEEP UP & PLACE IN SUITABLE CLEAN, DRY
CONTAINERS FOR LATER DISPOSAL. DO NOT FLUSH WITH WATER. KEEP
UNNECESSARY PEOPLE AWAY.

===== Handling and Storage =====

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

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

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 CA
SE

HISTORY 88106A FOR MORE INFORMATION. *NOTE* MSDS BUILT BY DGSC-SSH
FROM MATERIAL OF SPECTRUM CHEMICAL, NSN 6750-00-174-5454.

===== Physical/Chemical Properties =====

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 and Reactivity Data =====

Stability Indicator/Materials to A

void: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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