

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

Product ID:BORIC ACID

MSDS Date:01/01/1987

FSC:6810

NIIN:00-824-9090

MSDS Number: BFRGZ

=== Responsible Party ===

Company Name:MALLINCKRODT INC.,SCIENCE PRODUCTS DIVISION

Emergency Phone Num:(314)982-5000

CAGE:62910

=== Contractor Identification ===

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

St

ate:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

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

Ingred Name:BORIC ACID;ORTHO-BORIC ACID;BORACIC ACID; CAS #10043-35-3

CAS:10043-35-3

RTECS #:ED4550000

Fraction by Wt: >99%

ACGIH TLV:NOT KNOWN

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

Effects of Overexposure:INH:MAY IRRIT MUC MEMB OF RESP

TRACT;ING:SYMPTMS SIMILAR TO INH;SKIN/EYES:MAY CAUSE IRRITATION.

===== First

Aid Measures =====

First Aid:SKIN:WASH W.SOAP & H\*2O EYES:FLUSH W. H\*2O. INGESTED:GIVE 2  
GLASSES H\*2O; INDUCE VOMITING.CALL A PHYSICIAN. INHALE:REMOVE TO  
FRESH AIR. GIVE CPR/OXYGEN IF NEED. KEEP WARM & QUIET. REMOVE  
CONTAMINATED CLOTHING. IF UNCONS DO NOT TAKE ANYTHING BY MOUTH.

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

Flash Point:NONE

Extinguishing Media:EXTINGUISH W. AGENT SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEA

R SELF-CNTD BRTHG,APP H\*20 SPRAY TO COOL  
CONTR.

Unusual Fire/Explosion Hazard:A MIXTURE OF POTASSIUM & BORIC ACID MAY  
EXPLODE ON IMPACT.

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

Spill Release Procedures:CLEAN-UP PERSONNEL NEED PROTECTION FROM  
INHALATION OF DUST.COLLECT SOLID SPILLS & PLACE IN APPROPRIATE  
CONTAINERS FOR DISPOSAL.LIQUID(SOLUTIONS)SPILLS CAN BE ABSORBED  
W/INERT SOLID.RESIDUE TRACES CAN BE FLUSHED TO SEWER WITH HIGH  
DILUTION.

==

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

Handling and Storage Precautions:KEEP IN TIGHTLY CLOSED CONTNRS AT  
COOL,DRY,VENTILATED PLACE.PROTECT AGAINST PHY DAMAGE;CARBON STEEL  
OR ALUMNM CONTNRS ARE SUITABLE FOR STORAGE.

Other Precautions:AVOID BREATHING DUST.USE W/ADEQUATE VENTILATION.KEEP  
CONTAINRS CLOSED.WASH THOROUGHLY AFTER HANDLING.AVOID SKIN,EYES &  
CLOTHING CONTACT;STAINLESS STEEL IS NEEDED FOR MOIST CONDITIONS.

===== Exposure Controls/Pers  
onal Protection =====

Respiratory Protection:SUPPLIED AIR RESPIR/SCBA; ESCAPE: GAS MASK

Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.

Protective Gloves:IMPERVIOUS

Eye Protection:GOGGLES/FACE SHIELD

Other Protective Equipment:FULL PROTECTIVE CLOTHING,SAFETY SHOWER,EYE  
WASH STATION

Supplemental Safety and Health

MSDS FROM MFR DATED:28 FEB 85 CONFORMS TO OSHA HAZ COMM STD.

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

HCC:N1

Boiling Pt:B.P. Text:DECOPOSES

Spe

c Gravity:1.43  
Solubility in Water:COMPLETE  
Appearance and Odor:COLORLESS CRYSTALS,NO APPARENT ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
POTASSIUM,ACETIC ANHYDRIDE  
Stability Condition to Avoid:MOISTURE  
Hazardous Decomposition Products:BORON OXIDE WHEN HEATED TO  
DECOMPOSITION

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

Waste Disposal Methods:RECLAIM DRY MATERIAL FOR SALVAGE OR REUSE.  
UNSA  
LVAGEABLE WASTE MAY BE SENT TO A RCRA APPROVED LANDFILL.ENSURE  
COMPLIANCE WITH LOCAL,STATE & FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent profes  
sional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.