**Boric Acid**

**MATERIAL SAFETY DATA SHEET**

FISHER SCIENTIFIC

EMERGENCY NUMBER: (201) 796-7100

CHEMICAL DIVISION
CHEMWEB ASSISTANCE: (800) 424-9300

FAIR LAWN NJ 07410

DATE: 08/14/93

INDEX: 05912870140

ACCT: 888235-01

CAT NO: BP168500

PO NBR: N/A

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**STORAGE**

STORAGE TEMPERATURE: 2-8°C (36-46°F) protected from light.

STORAGE CONTAINERS: Metal dry boxes.

STORAGE LOCATION:炸药库,

STORAGE CLASSIFICATION: 8.1 (FDA)

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**Hazard PPE**

SPECIAL PROTECTIVE EQUIPMENT: Wear NIOSH approved respirators, chemical protective clothing, gloves, and safety glasses.

HANDLING:

- Do not eat, drink, or smoke in the work area.
- Do not inhale dust or fumes.
- Do not get on skin or in eyes.
- Do not inhale dust or fumes.

TOxicITY:

- **Acute Oral LD50:** 500 mg/kg (rats)
- **Acute Skin LD50:** 5000 mg/kg (rabbits)
- **Acute Eye LD50:** 5000 mg/kg (rabbits)

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AND IN MALES THE TESTES, EPIDIDYMIS, AND SPERM DUCT WERE AFFECTED

FIRST AID: MAINTAIN RESPIRATION. REMOVE BY IPECAC EMESIS FOLLOWED BY
ACTIVATED CHARCOAL. GASTRIC LAVAGE MAY BE USEFUL. TREAT ANURIA. (DREIBACH
HANDBOOK OF POISONING, 11TH ED.) GET MEDICAL ATTENTION IMMEDIATELY.
TREATMENT SHOULD BE PERFORMED BY QUALIFIED MEDICAL PERSONNEL.

ANTIDOTE: NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

REACTIVITY

STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:
BORIC ACID
ACETIC ANHYDRIDE: EXPLOSIVE REACTION ON HEATING.
IRON: MAY BE CORROSIVE IN PRESENCE OF MOISTURE.
SODIUM: POSSIBLE TOXIC OR EXPLOSIVE REACTION.

DECOMPOSITION:
THE SUBSTANCE GRADUALLY LOSES WATER AT 100-180°C FORMING METABORIC ACID, THEN
HYDROBORIC ACID, AND FINALLY BORIC ACID.

POLYMERIZATION:
HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL
TEMPERATURES AND PRESSURES.

STORAGE AND DISPOSAL

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING
OF THIS SUBSTANCE.

**STORAGE**

STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

CONDITIONS TO AVOID

NO REPORTS FOUND

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL:
Sweep up and place in suitable clean, dry containers for reclamation or later
disposal. Do not flush spilled material into sewer. Keep unnecessary people
away.

PROTECTIVE EQUIPMENT

VENTILATION:
PROVIDE LOCAL EXHAUST VENTILATION SYSTEM.

RESPIRATOR:
THE FOLLOWING RESPIRATORS ARE RECOMMENDED BASED ON INFORMATION FOUND IN THE
PHYSICAL DATA, TOXICITY AND HEALTH EFFECTS SECTIONS. THEY ARE RANKED IN
ORDER FROM MINIMUM TO MAXIMUM RESPIRATORY PROTECTION.
THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND
IN THE WORK PLACE. MUST BE BASED ON THE SPECIFIC OPERATION. MUST NOT EXCEED
THE WORKING LIMITS OF THE RESPIRATOR AND MUST BE Jointly APPROVED BY THE
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH AND THE MINE SAFETY
AND HEALTH ADMINISTRATION (NIOSH-MSHA).

ANY DUST AND MIST RESPIRATOR.
ANY AIR-PURIFYING RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE FILTER.
ANY POWERED AIR-PURIFYING RESPIRATOR WITH A DUST AND MIST FILTER.
ANY POWERED AIR-PURIFYING RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE
FILTER.
ANY TYPE C SUPPLIED-AIR RESPIRATOR OPERATED IN THE PRESSURE-DEMAND OR
OTHER POSITIVE PRESSURE OR CONTINUOUS-THE MODE.
ANY SELF-CONTAINED BREATHING APPARATUS.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:
ANY SELF-CONTAINED BREATHING APPARATUS THAT HAS A FULL FACEPIECE AND IS
OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.