

MATERIAL SAFETY DATA SHEET

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DATE PREPARED: 10-30-01

DATE REVISED: 1-17-05

SECTION 1. ----- CHEMICAL IDENTIFICATION-----

CODE #: 0146

NAME: BORIC ACID, SODIUM DECAHYD

SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

CAS #: 1303-96-4

MF: B4NA2O7

SYNONYMS

ANTIPYONIN * BORASCU * BORATES, TETRA, SODIUM SALT, DECAHYDRATE
(ACGIH) * BORAX (8CI) * BORAX DECAHYDRATE * BORICIN * DISODIUM
TETRABORATE DECAHYDRATE * GERTLEY BORATE * JAIKIN * NEOBOR * SODIUM
BIBORATE DECAHYDRATE * SODIUM PYROBORATE DECAHYDRATE * SODIUM
TETRABORATE DECAHYDRATE * SOLUBOR * THREE ELEPHANT * TRONABOR *

SECTION 3. ----- HAZARDS IDENTIFICATION -----

IRRITANT

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

SECTION 4. ----- FIRST-AID MEASURES-----

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.

CALL A PHYSICIAN.

IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,

CALL A PHYSICIAN.

IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.

IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING
THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

EXTINGUISHING MEDIA

WATER SPRAY.

CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.

SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.

AVOID RAISING DUST.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

AVOID CONTAMINATING SEWERS AND WATERWAYS WITH THIS MATERIAL.

AVOID CONTAMINATING WATER SUPPLY.

SECTION 7. ----- HANDLING AND STORAGE-----

REFER TO SECTION 8.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -

SAFETY SHOWER AND EYE BATH.
 MECHANICAL EXHAUST REQUIRED.
 AVOID INHALATION.
 AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
 AVOID PROLONGED OR REPEATED EXPOSURE.
 NIOSH/MSHA-APPROVED RESPIRATOR.
 COMPATIBLE CHEMICAL-RESISTANT GLOVES.
 CHEMICAL SAFETY GOGGLES.
 KEEP TIGHTLY CLOSED.
 STORE IN A COOL DRY PLACE.
 WASH THOROUGHLY AFTER HANDLING.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE

SOLID

PHYSICAL PROPERTIES

MELTING POINT: 62 C
 SPECIFIC GRAVITY: 1.71
 PH: 9.2

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

STABILITY

STABLE.

INCOMPATIBILITIES

STRONG OXIDIZING AGENTS
 STRONG REDUCING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

BORON OXIDES.

SODIUM OXIDES

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS

CAUSES EYE AND SKIN IRRITATION.
 MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
 MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
 MAY BE HARMFUL IF INHALED.
 MAY BE HARMFUL IF SWALLOWED.
 TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
 TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.
 LD

RTECS #: VZ2275000

SODIUM BORATE, DECAHYDRATE

TOXICITY DATA

ORL-INF LDLO:1 GM/KG	PCOC** -,144,1966
ORL-MAN LDLO:709 MG/KG	JAMAAP 76,378,1921
ORL-RAT LD50:2660 MG/KG	FMCHA2 -,C48,1991
ORL-MUS LD50:2 GM/KG	14KTAK -,693,1964
IPR-MUS LD50:2711 MG/KG	AIPTAK 143,144,1963
IVN-MUS LD50:1320 MG/KG	14KTAK -,693,1964
ORL-GPG LD50:5330 MG/KG	14KTAK -,693,1964

TARGET ORGAN DATA

BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)
 CARDIAC (CHANGE IN RATE)
 GASTROINTESTINAL (NAUSEA OR VOMITING)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

DATA NOT YET AVAILABLE.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----

NOT REGULATED

SECTION 15. ----- REGULATORY INFORMATION -----

EUROPEAN INFORMATION

CAUTION: SUBSTANCE NOT YET FULLY TESTED.

R: 36/37/38

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

S: 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

ACGIH TLV-TWA 5 MG/M3

DTLVS* TLV/BEI,1999

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

FEREAC 54,7740,1989

OEL-AUSTRALIA: TWA 5 MG/M3, JAN1993

OEL-BELGIUM: TWA 5 MG/M3, JAN1993

OEL-DENMARK: TWA 2 MG/M3, SKIN, JAN1999

OEL-THE NETHERLANDS: MAC-TGG 5 MG/M3, JAN1999

OEL-NORWAY: TWA 5 PPM, JAN1999

OEL-POLAND: MAC(TWA) 0.2 MG/M2, MAC(STEL) 2 MG/M3, JAN1999

OEL-SWEDEN: NGV 2 MG/M3, KTV 5 MG/M3, SKIN, JAN1999

OEL-SWITZERLAND: MAK-W 1 MG/M3, JAN1999

OEL-UNITED KINGDOM: LTEL 5 MG/M3, JAN1993

OEL IN ARGENTINA, BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV;

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV

NIOSH REL TO BORATES, DECAHYDRATE-AIR:10H TWA 5 MG/M3

NIOSH* DHHS #92-100,1992

NOES 1983: HZD T1956; NIS 196; TNF 29342; NOS 132; TNE 442072; TFE
88646

NOES 1983: HZD X6986; NIS 3; TNF 143; NOS 4; TNE 1615; TFE 53

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001

SECTION 16. ----- OTHER INFORMATION -----

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