ATTN: SAFETY DIRECTOR
BILL FITZGERALD QF 06524
UNIVERSITY OF WISCONSIN WHITewater
P O BOX 296
WHITewater WI 53190-0296

DATE: 12/09/94
CUST#: 523216
PO#: Q F 06524

DECEMBER 15 1994

MATERIAL SAFETY DATA SHEET

SECTION 1. -- -- -- -- CHEMICAL IDENTIFICATION -- -- -- -- --
PRODUCT #: 20221-5
NAME: SODIUM TETRAFLUOROBORATE, 98%

SECTION 2. -- -- -- -- COMPOSITION/INFORMATION ON INGREDIENTS -- -- --
CAS #: 13755-29-3
MF: SF4NA
SYNONYMS:
SODIUM TETRAFLUOROBORATE * STB *

SECTION 3. -- -- -- -- HAZARDS IDENTIFICATION -- -- --
LABEL PRECAUTIONARY STATEMENTS:
CORROSIVE
CAUSES BURNS.
HARMFUL BY INHALATION. IN CONTACT WITH SKIN AND IF SWALLOWED.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.
TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.
PROTECT FROM MOISTURE.
HANDLE AND STORE UNDER NITROGEN.
ABSOLUTELY DRY MATERIAL DOES NOT ETCH GLASS.
D0 NOT STORE IN GLASS.

SECTION 4. -- -- -- -- FIRST-AID MEASURES -- -- --
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.
DISCARD CONTAMINATED SHOES.

CONTINUED ON NEXT PAGE
SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:
DRY CHEMICAL POWDER.

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

EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. HANDLING AND STORAGE

REFER TO SECTION 8.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

USE ONLY IN A CHEMICAL FUME HOOD.

SAFETY SHOWER AND EYE BATH, FACE SHIELD (8-INCH MINIMUM).
DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.
WASH THOROUGHLY AFTER HANDLING.
CORROSIVE.
HARMFUL SOLID.
KEEP TIGHTLY CLOSED.
PROTECT FROM MOISTURE.
HANDLE AND STORE UNDER NITROGEN.
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR
WHITE CRYSTALLINE POWDER
SPECIFIC GRAVITY: 2.470

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

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS SENSITIVE TO MOISTURE
DO NOT STORE IN GLASS.
ABSOLUTELY DRY MATERIAL DOES NOT ETCH GLASS.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
HYDROGEN FLUORIDE
Boron Oxides.

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

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND
UPPER RESPIRATORY TRACT, EYES AND SKIN.
INHALATION MAY BE FATAL AS A RESULT OF SPAETH, INFLAMMATION AND EDEMA
OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
VOMITING.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTCS NO: E02975000
Borate(s), Tetrafluoro-, Sodium

TOXICITY DATA
SCG-UATLD50: 550 MG/KG
ZKOBW 80:17:73

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

CONTINUED ON NEXT PAGE
PRODUCT #: 202215
NAME: SODIUM TETRAFLUOROBORATE, 98%

COMPLETE INFORMATION.

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

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

BURY IN A LANDFILL SITE APPROVED FOR THE DISPOSAL OF CHEMICAL AND HAZARDOUS WASTES.

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

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

REVIEWS, STANDARDS, AND REGULATIONS
OSHA PEL: TWA 2.5 MG(F)/M3
FEDERAL 54.2923.89
CSA PEL: TWA 2.5 MG(F)/M3
FEDERAL 54.2923.89
NIOH: REL TO FLUORIDES, INORGANIC-AIR:10H TWA 2.5 MG(F)/M3
NIOH: DHNS #92-100.92
NOS 1974: HZD A1165; NIS 8; TNE 374; NOS 13; TNE 6927
NOS 1993: HZD A1165; NIS 15; TNE 5011; NOS 31; TNE 15354; TFE 1351
EPA TSCA CHEMICAL INVENTORY, JUNE 1993

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

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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