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FISHER SCIENTIFIC, CHEMICAL DIV. -- SODIUM BORATE DECAHYDRATE -- 6810-00-234-8369

Product ID:SODIUM BORATE DECAHYDRATE

MSDS Date:06/10/1995

FSC:6810

NIIN:00-234-8369

MSDS Number: BMBTM === Responsible Party ===

Company Name: FISHER SCIENTIFIC, CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ ZIP:07410 Country:US

Info Phone Num:201-796-7100

Emergency

Phone Num:201-796-7100/800-424-9300(CHEMTREC)

CAGE:1B464

=== Contractor Identification ===

Company Name: FISHER SCIENTIFIC CO

Address:2000 PARK LN Box:City:PITTSBURGH

State:PA ZIP:15275 Country:US

Phone:412-490-8586

CAGE:22527

Company Name: FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802 Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name: SODIUM TETRABORATE, DECAHYDRATE

CAS:1303-96-4

RTECS #:VZ2275000 Fraction by Wt: 100%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:10 MG/M3 ACGIH TLV:5 MG/M3; 9596

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

LD50 LC50 Mixture:ORAL LD50 (MS) IS 2G/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:**IRRITANT,NARCOTIC,TOXIC TO THE

LIVER** EYES:IRRITATION.SKIN:MAY BE ABSORBED THROUGH DAMAGED SKIN CAUSING

SYSTEMIC EFFECTS.IRRITATION.INGEST:GI TRACT IRRITATION.SEE SYSTEMIC EFFECTS BELOW.INHAL:MAY C AUSE RESPIRATORY IRRITATION.CHRONIC:BRONCHITIS,LARYNGITIS,DERMATITIS,CONJUNCTIVITIS. MAY DAMAGE LIVER AND KIDNEYS.

Explanation of Carcinogenicity: THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP. IARC OR OSHA.

Effects of Overexposure:SYSTEMIC EFFECTS:MALAISE,NAUSEA,SEVERE EPIGASTRIC PAIN,HEMORRAGIC GASTROENTERITIS,BLOOD AND VOMITUS AND DIARRHEA,WEAKN

ESS,LEATHARGY,FEVER,HEADACHE,TACHYCARDIA,TACHYPNEA,RE STLESSNESS,DELIRIUM,TREMORS,F ACIAL TWITCHING,INTERMITTENT CONVULSIONS,CNS DEPRESSION,SHOCK(COLD CLAMMY SKIN,CYANOSIS,THREADY PULSE,HYPOTENSION).

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING LIVER AND KIDNEY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP OR MILD DETERGENT AND

WATER.GET MEDICAL ATTENTION.EYES:FLUSH WITH NORMAL SALINE OR WATER FOR 15 MINUTES.GET MEDICAL IMMEDIATE ATTENTION.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.GET IMMEDIATE MEDICAL ATTENTION.INGEST:GET PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,INDUCE VOMITING(IPECAC);FOLLOW W/ ACTIVD CHARCOAL.

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

Flash Point:NONE

Extinguishing Media: USE MEDIA APPROPRIATE FOR SURROUNDING FIR

E.
Fire Fighting Procedures: USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.
========= Accidental Release Measures ===========
Spill Release Procedures:SWEEP;DO NOT CREATE DUST;PLACE IN AN APPROPRIATE CONTAINER FOR RECLAMATION OR DISPOSAL.DO NOT FLUSH SPILLED MATERIAL TO SEWER.KEEP UNNESCESSARY PEOPLE AWAY. Neutralizing Agent:NOT APPLICABLE.
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Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.KEEP AWAY FROM INCOMPATIBLE MATERIALS.
Other Precautions:IF MATERIAL IS INVOLVED IN A FIRE IT MAY MELT INTO A GLASSY MATERIAL WHICH CAN FLOW AND IGNITE COMBUSTIBLE MATERIALS.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE EITHE R A SELF-CONTAINED BREATHING APPARATUS OR A NIOSH/MSHA APPROVED RESPIRATOR FOR DUST AND MISTS, DEPENDING ON THE AIRBORN CONCENTRA TION. Ventilation:PROVIDE LOCAL EXHAUST. Protective Gloves:IMPERVIOUS GLOVES. Eye Protection:DUST-PROOF GOGGLES Other Protective Equipment:PROTECTIVE CLOTHING, AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER. Work Hygienic Practices:USE REASONABLE CARE IN HANDLING THIS PRODUCT.WASH HANDS AFTER USE AND BEFORE EATING. Supplemental Safety and H ealth GASTRIC LAVAGE SHOULD BE PERFORMED BY QUALIFIED MEDICAL PERSONNEL.EFFLORESCENT IN DRY AIR.LOOSES 5 WATERS OF HYDRATION AT 212F/6@302F/10@608F.
========= Physical/Chemical Properties ==========
HCC:N1 Boiling Pt:B.P. Text:680F,360C Melt/Freeze Pt:M.P/F.P Text:167F,75C Spec Gravity:1.73 pH:9.5 AQ Solubility in Water:MODERATE Appearance and Odor:ODORLESS,HARD CRYSTALS,GRANULES OR CRYSTALLINE POWDER WITH A WHITE COATING SUPP

======== Stability and Re

activity Data ==========	
Stability Indicator/Materials to Avoid:YES	
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ZIRCONIUM(EXPLOSIVE REACTION WHEN HEATED).
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:SODIUM OXIDE(TOXIC).

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.

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