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BETZDEARBORN INC., WATER MANAGEMENT GROUP -- HARDNESS BUFFER,L291

6850-01-390-4335

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

Product ID:HARDNESS BUFFER,L291

MSDS Date: 08/22/1995

FSC:6850

NIIN:01-390-4335

MSDS Number: CLCCM === Responsible Party ===

Company Name: BETZDEARBORN INC., WATER MANAGEMENT GROUP

Address: 200 WITMER ROAD

City:HORSHAM

State:PA ZIP:19044 Country:US

Info Phone Num:215-773-6269/800-

877-1940(USA)

Emergency Phone Num:800-877-1940

CAGE:57394

=== Contractor Identification ===

Company Name: BETZDEARBORN INC

Address:4636 SOMERTON ROAD

Box:City:TREVOSE

State:PA ZIP:19053 Country:US

Phone:215-355-3300

CAGE:1CWF7

Company Name:BETZDEARBORN INC.

Address:4636 SOMERTON ROAD

City:TREVOSE,

State:PA ZIP:19053 Country:US

Phone:215-942-3355

Contract Num:SP0450-01-M-D931

CAGE:57394

Company Name: SDB CONSULTANTS LTD Address: 401 WHITNEY AVE SUITE 120

Box:City:GRETNA

State:LA ZIP:70056 Country:US Phone:504-366-9105

Contract Num:SP0450-02-M-M253

CAGE:0PGK2

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

Ingred Name: BORIC ACID, DISODIUM SALT, PENTAHYDRATE

CAS:12179-04-3 RTECS #:VZ2540000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:NOT DETERMINED

ACGIH TLV:1 MG/M3

Ingred Name: POTASSIUM HYDROXIDE (CAUSTIC POTASH)

CAS:1310-58-3

RTECS #:TT2100000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:C 2 MG/M3 ACGIH TLV:C 2 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Na

me:SODIUM SULFIDE (ANHYDROUS)

CAS:1313-82-2

RTECS #:WE1905000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:NOT DETERMINED ACGIH TLV:NOT DETERMINED

LD50 LC50 Mixture:LD50 (ORAL, RAT) >2,000 MG/KG ESTIMATED

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

Health Hazards Acute and Chronic: TARGET ORGANS: NO EVIDENCE OF

POTENTIAL CHRONIC EFFECTS. ACUTE: SKIN-MAY CAUSE M

ODERATE

IRRITATION TO THE SKIN. EYE-SEVERE IRRITANT TO THE EYES, POSSIBLY CORROSIVE. RESPIRATORY-MISTS/AEROSOLS MAY CAUS E IRRITATION TO UPPER RESPIRATORY TRACT. INGESTION-MAY CAUSE GASTROINTESTINAL TRACT IRRITATION WITH POSSIBLE NAUSEA, VOMITING, ABDOMINAL DISCOMFORT AND DIARRHEA.

Explanation of Carcinogenicity:NO COMPONENT IS CONSIDERED TO BE A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM, THE INTENATIONAL AGENCY FOR RESEARCH ON CANCER, OR THE OCCUPATIONAL SAFETY &

HEALTH ADMINISTRATION AT OSHA THRESHOLD F OR CARCINOGENS. Effects of Overexposure:CAUSES IRRITATION OF THE SKIN, EYES, AND/OR RESPIRATORY SYSTEM. Medical Cond Aggravated by Exposure:NOT KNOWN.
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First Aid:SKIN-REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH A LARGE QUANTITY OF SOAP SOLUTION OR WATER FOR 15 MIN. EYE-IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MIN. IMMEDIATELY CONTACT A PHYSICIAN FOR T REAT MENT. INHALATION-REMOVE VICTIM FROM CONTAMINATED AREA TO FRESH AIR. APPLY FIRST AID TREATMENT AS NECESSARY. INGESTION-DO NOT INDUCE VOMITING. IMMEDIATELY CONTACT PHYSICIAN. DILUTE CONTENTS OF STOM ACH USING 3-4 GLASSES MILK OR WATER. NOTES TO PHYSICIAN: NO SPECIAL INSTRUCTIONS.
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Flash Point Method:PMCC Flash Point:>93.3C, 200.F Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, FOAM OR WATER. Fire Fighting Proce dures:FIRE FIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (FULL FACEPIECE TYPE).
========= Accidental Release Measures ==========
Spill Release Procedures:VENTILATE AREA. USE SPECIFIED PROTECTIVE EQUIPMENT. CONTAIN AND ABSORB ON ABSORBENT MATERIAL. PLACE IN WASTE DISPOSAL CONTAINER. FLUSH AREA WITH WATER. WET AREA MAY BE SLIPPERY. SPREAD SAND/GRIT. Neutralizing Agent:WEAK ACID
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Handling and Storage Precautions:HANDLING: NORMAL CHEMICAL HANDLING. STORAGE: KEEP CONTAINERS CLOSED WHEN NOT IN USE. KEEP DRY. Other Precautions:HMIS RATINGS: HEALTH=2, FLAMMIBILITY=1, REACTIVITY=0.
====== Exposure Controls/Personal Protection ========
Respiratory Protection: A RESPIRATORY PROTECTION POGRAM THAT MEETS

OSHA'S 29 CFR 1910.134 & ANSI Z88.2 REGS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT RESPIRATOR USE. USE AIR PURIFYING

RES

PIRATORS WITHIN USE LIMI TATIONS ASSOCIATED WITH EQUIPMENT OR USE SUPPLIED AIR RESPIRATORS. IF AIR-PURIFYING RESPIRATOR USE IS APPROPIATE, USE A RESPIRATOR WITH DUST/MIST FILTERS.

Ventilation: ADEQUATE VENTILATION TO MAINTAIN AIR CONTAMINANTS BELOW EXPOSURE LIMITS.

Protective Gloves: NEOPRENE GLOVES - WASH OFF AFTER EACH USE. REPLACE AS NECESSARY.

Eye Protection: AIRTIGHT CHEMICAL GOGGLES.

Work Hygienic Practices:WASH HANDS AFTER HANDLING. LAUNDRY CONTAMINATED CLOTHING PRIOR T

O REUSE.

Supplemental Safety and Health

REAGENT NAME: HARDNESS BUFFER. REAGENT CODE: L291. REAGENT APPLICATION AREA: FIELD TEST REAGENT.

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

HCC:B3

NRC/State Lic Num:NOT RELEVANT

pH:10 AS IS

Viscosity:NOT RELEVANT

Evaporation Rate & Reference: < 1.00 (ETHER=1)

Solubility in Water:100%

Appearance and Odor: WHITE POWDER - SLIGHT SULFUR ODOR

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

Stability Indica

tor/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:STABLE UNDER NORMAL STORAGE CONDITIONS. Hazardous Decomposition Products:THERMAL DECOMPOSITION (DESTRUCTIVE FIRES) YIELDS ELEMENTAL OXIDES.

Conditions to Avoid Polymerization: WILL NOT OCCUR

======== Toxicological Information ==========

Toxicological Information:ORAL LD50 RAT: >2,000 MG/KG. NOTE-ESTIMATED VALUE. DERMAL LD50 RABBIT: >2,000 MG/KG. NOTE-ESTIMATED VALUE.

=== Ecological Information ============
Ecological:AQUATIC TOXICOLOGY: NO DATA AVAILABLE. BIODEGRADATION: NO DATA AVAILABLE.
======== Disposal Considerations ==========
Waste Disposal Methods:WATER CONTAMINATED WITH THIS PRODUCT MAY BE SENT TO A SANITARY SEWER TREATMENT, IN ACCORDANCE WITH ANY LOCAL AGREEMENT, A PERMITTED WASTE TREATMENT FACILITY OR DISCHARGE UNDER A PERMIT. PRODUCT AS IS - INCINERATE OR LAND DISPOSE IN AN APPROVED LAND FILL.
========= MSDS Transport Information ==========
Transport Information:DOT HAZARD: NOT APPLICABLE. UN/NA NUMBER: NOT APPLICABLE. DOT EMRGENCY RESPONSE GUIDE #: NOT APPLICABLE.
=========== Regulatory Information =============
SARA Title III Information:CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ): NO REGULATED CONSTITUENT PRESENT AT OSHA THRESHOLDS. SARA SECTION 312 HAZARD CLASS: IMMEDIATE (ACUTE). SARA SECTION 302 CHEMICALS:
NO R EGULATED CONSTITUEN T PRESENT AT OSHA THRESHOLDS. SARA SECTION 313 CHEMICALS: NO REGULATED CONSTITUENT PRESENT AT OSHA THRESHOLDS.
Federal Regulatory Information:TSCA: ALL COMPONENTS OF THIS PRODUCT ARE LISTED IN THITSCA INVENTORY.
State Regulatory Information:CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT: NO REGULATED CONSTITUENT PRESENT AT OSHA THRESHOLDS. MICHIGAN REGULATORY INFORMATION: NO REGULATED CONSTITUENT PRESENT AT OSHA THRESHOLDS.
========== Other Information =============
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