WESTERN WATER MANAGEMENT/WESTERN CHEMICAL CO -- CLOSED CIRCUIT TREATMENT 8696-A -- 6850-01-185-1187

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

Product ID:CLOSED CIRCUIT TREATMENT 8696-A
MSDS Date:04/10/1995
FSC:6850
NIIN:01-185-1187
Status Code:A
MSDS Number: CJGVH
=== Responsible Party ===
Company Name:WESTERN WATER MANAGEMENT/WESTERN CHEMICAL CO
Address:1345 TANEY
City:NORTH KANSAS CITY
State:MO
ZIP:641
16-4414
Country:US
Info Phone Num:816-842-0560
Emergency Phone Num:816-842-0560
Preparer's Name:FRED HOPKINS
Chemtrec Ind/Phone:(800)424-9300
CAGE:08824
=== Contractor Identification ===
Company Name:WESTERN WATER MANAGEMENT/WESTERN CHEMICAL CO
Address:1345 TANEY
Box:City:NORTH KANSAS CITY
State:MO
ZIP:64116-4414
Country:US
Phone:816-842-0560
Contract Num:DLA400-90-M-A422
CAGE:08824

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

Ingred Name:SODIUM NITRITE
CAS:7632-00-0
RT

ECS #:RA1225000
Minumum % Wt:65.
Code:F
Maxumum % Wt:70.
Code:F
Other REC Limits:NONE RECOMMENDED
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:SODIUM TETRABORATE PENTAHYDRATE
CAS:1303-96-4
RTECS #:VZ2275000
Minumum % Wt:8.
Code:F
Maxumum % Wt:12.
Code:F
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG/M3 TWA
ACGIH TLV:1 MG/M3 8 HR TWA

Ingred Name:BENZISOTRIAZOLE
CAS:95-14-7
RTECS #:DM1225000
Minumum % Wt:4.
Code:F
Maxumum % Wt:5.
Code:F
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) = 121 MG/KG (TECH SUPP)
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: EYES, SKIN, RESPIRATORY AND GI TRACTS (HMIS). ACUTE - INHALATION: DUST OR MIST MAY IRRITATE RESPIRATORY TRACT. EYES: MAY CAUSE IRRITATION. SKIN: MAY CAUSE IRRITATION WITH DISCOMFORT OR RASH. SODIUM NITRITE CAN BE ABS ORBED INTO BODY THROUGH SKIN AND LEAD TO NONSPECIFIC DISCOMFORT, SUCH AS NAUSEA, HEADACHE, OR WEAKNESS; REDUCTION OF BLOOD'S OXYGEN CARRYING CAPACITY WITH CYANOSIS, WEAK NESS, OR SHORTNESS OF BREATH BY FORMATION OF METHEMOGLOBINE; ANEMIA OR LOW BLOOD PRESSURE WITH DIZZINESS. SODIUM TETRABORATE MAY AFFECT CNS. INGESTION: MAY CAUSE IRRITATION. LARGE DOSES ARE TOXIC AND MAY CAUSE DEATH. CHRONIC - UNKNOWN.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRIT

ATION, HEADACHE, DIZZINESS, NAUSEA,
VOMITING, DROWSINESS, TEARNING, BLURRED VISION, UNCONSCIOUSNESS, WEAKNESS, FATIGUE, DIARRHEA, BLUISH DISCOLORATION OF SKIN, RASH, SHORTNESS OF BREATH, ANEMIA, LOW BLOOD PRESSURE, COLLAPSE, COMA, DEATH

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEXISTING DISEASES OF THE CARDIOVASCULAR SYSTM AND BONE MARROW MAY HAVE SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

========== First Aid Measures ==========
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First Aid:EYES: IMMEDIATELY FLUSH WITH LARGE AMOUNT OF WATER FOR AT LEAST 15 MINUTES. HOLD LIDS OPEN TO ENSURE FLUSHING ENTIRE EYE SURFACE. GET EMERGENCY MEDICAL ATTENTION. SKN: REMOVE CONTAMINATED CLOTHING. WA SH CONTAMINATED SKIN WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET EMERGENCY MEDICAL ATTENTIO N. INGESTION: HAVE CONSCIOUS PATIENT DRINK SEVERA
L
GLASSES OF WATER, THEN INDUCE VOMITING BY HAVING PATIENT TICKLE BACK OF THROAT WITH FINGER. GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE FLUID OR IND UCE VOMITING IF PATIENT IS UNCONSCIOUS.

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

Flash Point:NONE
Lower Limits:NONFLAMMABLE
Upper Limits:NONFLAMMABLE
Extinguishing Media:FLOODING AMOUNTS OF WATER IN EARLY STAGES. HEAVY WATER JET IS ADVANTAGEOUS.
Fire Fighting Procedures:ATTEMPT TO KEEP OUT OF SEWER. F
IREFIGHTERS
SHOULD ALWAYS WEAR PROTECTIVE CLOTHING AND POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES NEAR CHEMICALS.
Unusual Fire/Explosion Hazard:SODIUM NITRITE IS AN OXIDIZING AGENT-IT CAN SUPPLY OXYGEN TO STIMULATE OR ACCELERATE THE COMBUSTION OF ORGANIC OR OTHER COMBUSTIBLE MATERIALS. THERMAL DECOMPOSITION (AS MAY BE EXPERIENCED IN A FIRE) M AY PRODUCE TOXIC AND HAZARDOUS NITROGEN OXIDES, AND LEAVE A CAUSTIC RESIDUE.

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Accidental Release Measures ==========

Spill Release Procedures:KEEP UNAUTHORIZED PERSONS OUT OF AREA. IF FLAMMABLE MATERIALS ARE PRESENT, MONITOR OPERATION WITH A CARBON DIOXIDE FIRE EXTINGUISHER. CLEAN UP SPILLS IMMEDIATELY BY SWEEPING OR SHOVELING UP MATERIAL A ND PLACING INTO CLEAN FIBER/STEEL DRUM, CLOSE, AND LABEL "OXIDIZER". FLUSH SPILL AREA TO SEWER. ANY RELEASE OF PRODUCT TO ENVIRONMENT MAY BE SUBJECT TO FEDERAL, STATE, OR LOCAL REPORTING REQUIREMENTS
Neutralizing Agent:REDUCING AGENT

========== Handling and Storage ==========

Handling and Storage Precautions:STORE IN A COOL AREA AWAY FROM INCOMPATIBLE MATERIALS. KEEP DRUM TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINER FROM PHYSICAL DAMAGE. DO NOT MIX WITH ANY OTHER CONCENTRATED CHEMICALS.
Other Precautions:DO NOT GET IN EYE, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN. A
WATER SOURCE AND SHOWER SHOULD BE INSTALLED
IN STORAGE AND WO RK AREAS.

========== Exposure Controls/Personal Protection ==========

Respiratory Protection:NIOSH APPROVED PARTICULATE RESPIRATOR IF DUSTY CONDITIONS EXIST IN EXCESS OF TLV.
Ventilation:LOCAL MECHANICAL EXHAUST VENTILATION IS PREFERRED TO CONTROL DUSTY CONDITIONS.
Protective Gloves:SYNTHETIC RUBBER
Eye Protection:CHEMICAL SPLASH GOGGLES
Other Protective Equipment:EMERGENCY EYE WASH STATION, SAFETY SHOWER, L
ONG-SLEEVED SHIRT, AND LONG PANTS WORKER SHOULD WEAR ADEQUATE PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.
Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH BEFORE EATING, DRINKING OR SMOKING.
Supplemental Safety and Health

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

HCC:D2
Spec Gravity:1.282 (80LBS/CU FT)
pH:~9 (1% SOLN)
Solubility in Water:~1 LB/GAL H20
Appearance and Odor:OFF WHITE POWDER WITH NO APPRECIABLE O

DOR.

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

Stability Indicator/Materials to Avoid:NO
COMBUSTIBLE MATERIALS, ACIDS, AMMONIUM COMPOUNDS (POSSIBLY INCLUDING SOME DRY CHEMICAL FIRE EXTINGUISHING MATERIALS), AMINES, ACTIVATED CARBON, REDUCING AGENTS-PARTICULARLY CYANIDES, THIOCYANATES, THIOSULFATES, ORGANICS, AN
Stability Condition to Avoid:NONE KNOWN (UNSTABLE WITH HEAT, TEMPERATURES OVER 550 F)
Hazardous Decomposition Products:THERMAL DECOMPOSITION (A
S MAY BE
EXPERIENCED IN A FIRE) MAY PRODUCE TOXIC AND HAZARDOUS NITROGEN OXIDES. NITRITE COMPOUNDS MAY REACT WITH SECONDARY AMINES TO FORM SUSPECTED CANCER-CAUSING NITROSAMINES.

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

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS REGARDING HEALTH AND POLLUTION.

========== Regulatory Information ==========

SARA Title III Informat
ion:NONE
Federal Regulatory Information:ALL OF THE INGREDIENTS PRESENT IN THIS PRODUCT ARE LISTED IN THE TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY. OSHA HAZARD CLASSIFICATION: IRRITANT; TOXIC; OXIDIZER. REPORTABLE QUANTITY: 140 LBS.
State Regulatory Information: