

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:64116-4414

Country:US

Info Phone Num:816-842-0560

Emergency Phone N

um: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

RTECS #: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

===== 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 ABSORBED INTO BODY THROUGH SKIN AND LEAD TO NONSPECIFIC DISCOMF

ORT, 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:IRRITATION, HEADACHE, DIZZINESS, NAUSEA, VOMITING, DROWSINESS, TE

ARNING, 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 =====

First Aid:EYES: IMMEDIATELY FLUSH WITH LARGE AMOU
NT 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 SEVERAL
GLASSES OF WATER, THEN INDUCE VOMITING BY HAVING PATIENT T
ICKLE
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. FIREFIGHTERS
SHOULD ALWAYS WEAR PROTECTIVE CLOTHING AND POSIT
IVE 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.

===== 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 AND 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
WORK 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,
LONG-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 H2O

Appearance and Odor:OFF WHITE POWDER WITH NO APPRECIABLE ODOR.

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

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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 (AS MAY BE
EXPERIENCED IN A FIRE) MAY PRODUCE TOXIC AND HAZARD
OUS 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 Information:NONE
Federal Regulatory Information:ALL OF THE INGREDIENTS P
RESENT 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:

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