

CHEM ONE CORPORATION

-- SODIUM CARBONATE PEROXYHYDRATE

=====
MSDS Safety Information
=====

FSC: 6810
MSDS Date: 01/20/1995
MSDS Num: BXYRT
LIIN: 00D004119
Product ID: SODIUM CARBONATE PEROXYHYDRATE
MFN: 02
Responsible Party
Cage: CHEMO
Name: CHEM ONE CORPORATION
Address: 15150 SOMMERMEYER, SUITE 100
City: HOUSTON TX 77704
Info Phone Number: 713-896-9966/800--424-9300
Emergency Phone Number: 713-896-9966/800--424-9300
Preparer's Name: CLARE WELKER
Review Ind: Y
Published: Y

=====
Contractor Summary
=====

Cage: CHEMO
Name: CHEM ONE CORPORATION
City: HOUSTON TX 77041-5308
Phone: 713-896-9966

=====
Ingredients
=====

Cas: 479-19-8
RTECS #: 1004436SC
Name: SODIUM CARBONATE
% Wt: 65-70
Other REC Limits: NONE RECOMMENDED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

Cas: 7722-84-1
RTECS #: MX0899500
Name: HYDROGEN PEROXIDE
% Wt: 25-30
Other REC Limits: NONE RECOMMENDED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

=====
Health Hazards Data
=====

LD50 LC50 Mixture: ORAL LD50 (RAT) IS UNKNOWN
Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYES-THIS PRODUCT MAY CAUSE SEVERE EYE IRRITATION.
SKIN-THIS PRODUCT MAY CAUSE IRRITATION TO THE SKIN. INGESTION-THIS PRODUCT

MAY BE TOXIC BY INGESTION. INHALATION-AVOID BREATHING DUSTS. INHALATION MAY CAUSE IRRITATION TO THE MUCOUS MEMEBRA NES OF THE UPPER RESPIRATORY SYSTEM.
Explanation Of Carcinogenicity: NONE SPECIFIED BY MANUFACTURER.
Signs And Symptoms Of Overexposure: NONE SPECIFIED BY MANUFACTURER.
Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.
First Aid: EYE-IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 20 MIN. SEEK MEDICAL AID. SKIN-WASH GENTLY & THOROUGHLY WITH WATER & NONABRASIVE SOAP. SEEK MEDICAL ADVICE. INGESTION-IMMEDIATELY GIVE LARGE AMOUNTS OF WATER.IF VOMITING OCCURS, RINSE MOU TH & REPEAT ADMINISTRATION OF WATER. INHALATION-REMOVE SOURCE OF CONTAMINATION OR MOVE VICTIM TO FRESH AIR. IF NOT BREATHING, APPLY ARTIFICIAL RESPIRATION.

=====
Handling and Disposal
=====

Spill Release Procedures: IF SWEEPING OF A CONTAMINATED AREA IS NECESSARY, USE A DUST SUPPRESSANT. VENTILATE THE CONTAMINATED AREA. VACUUM UP THE SPILLED MATERIAL. DO NOT ALLOW THE SPILLED PRODUCT TO ENTER PUBLIC DRAINAGE SYSTEM OR OPEN WATER COURSES. PUT IN COVERED , CANS.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Methods: REVIEW FEDERAL, PROVINCIAL AND LOCAL GOVERNMENT REQUIREMENTS PRIOR TO DISPOSAL. DISPOSE BY CONTROLLED INCINERATION OR SECURE LANDFILL MAY BE ACCEPTABLE.
Handling And Storage Precautions: KEEP CONTAINER TIGHTLY CLOSED & IN A COOL, WELL-VENTILATED PLACE. DO NOT STORE THIS MATERIAL IN OPEN OR UNLABELED CONTAINERS. GUARD AGAINST DUST.
Other Precautions: EVACUATION PROCEDURES: KEEP UNNECESSARY PERSONNEL AWAY.CLOSE OFF AREA. SPECIAL INSTRUCTIONS: AVOID INHALATION OF DUSTS. HAVE ACCESS TO AN EYEWASH FOUNTAIN AND SAFETY SHOWER.

=====
Fire and Explosion Hazard Information
=====

Extinguishing Media: FLOOD WITH WATER. APPLY WATER FROM AS FAR A DISTANCE AS POSSIBLE.
Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard: DECOMPOSITION CAUSES A RELEASE OF OXYGEN & HEAT WHICH CAN SUPPORT COMBUSTION. DECONTAMINATION CAN PROMOTE DECOMPOSITION.THE OXYGEN EVOLVED CAN BURST SEALED CAN

=====
Control Measures
=====

Respiratory Protection: USE ADUST MASK & MAINTAIN ADEQUATE VENTILATION FOR GENERAL CONTACT WITH THIS MATERIAL. WEAR A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES.
Ventilation: USE A GENERAL MECHANICAL VENTILATION. LOCAL EXHAUST IS SUGGESTED FOR ENCLOSED OR CONFINED SPACES.
Protective Gloves: RUBBER GLOVES ARE RECOMMENDED.
Eye Protection: SAFETY GLASSES/CHEMICAL GOGGLES.
Other Protective Equipment: WEAR CHEMICAL PROTECTIVE BOOTS.
Work Hygienic Practices: USE GOOD HYGIENE PRACTICES WHEN HANDLING THIS MATERIAL INCLUDING CHANGING AND LAUNDERING WORK CLOTHING AFTER USE.
Supplemental Safety and Health: AS SHIPPED THIS PRODUCT IS CONSIDERED A D001 HAZARDOUS WASTE BY EPA. OXIDIZERS!!!

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

HCC: D1

M.P/F.P Text: DECOMPOSES
PH: 10.5
Solubility in Water: 140 G/L
Appearance and Odor: WHITE. SOLID. ODORLESS.

=====
Reactivity Data
=====

Stability Indicator: YES
Stability Condition To Avoid: STABLE WHEN DRY.
Materials To Avoid: ORGANIC MATERIALS, HEAVY METALS, OILS AND GREASES.
MOISTURE, REDUCING AGENTS & METALLIC IONS. REACTION MAY BE VIOLENT.
Hazardous Decomposition Products: HYDROGEN PEROXIDE, CARBONATE AND OXYGEN.
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: NONE

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

=====
Ecological Information
=====

=====
MSDS Transport Information
=====

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

=====
Other Information
=====

=====
Transportation Information
=====

Responsible Party Code: CHEMO
Trans ID NO: 3121
Product ID: SODIUM CARBONATE PEROXYHYDRATE
MSDS Prepared Date: 01/20/1995
Review Date: 12/11/1995
MFN: 2
AF MMAC Code: NO
Multiple KIT Number: 0
Review IND: Y

=====
Detail DOT Information
=====

DOT PSN Code: HMJ
DOT Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS
DOT PSN Modifier: WITH NOT LESS THAN 8 PER CENT BUT LESS THAN 20 PER CENT
HYDROGEN PEROXIDE (STABILIZED AS NECESSARY)
Hazard Class: 5.1
UN ID Num: UN2984
DOT Packaging Group: III
Label: OXIDIZER
Special Provision: 17,A1,T8,T37
Packaging Exception: 152
Non Bulk Pack: 203
Bulk Pack: 241
Max Qty Pass: 2.5 L

Max Qty Cargo: 30 L
Vessel Stow Req: B
Water/Ship/Other Req: 25,75,106

=====
Detail IMO Information
=====

IMO PSN Code: IIK
IMO Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION,
IMO PSN Modifier: WITH NOT LESS THAN 8% BUT LESS THAN 20% HYDROGEN PEROXIDE
(STABILIZED AS NECESSARY)
IMDG Page Number: 5150
UN Number: 2984
UN Hazard Class: 5.1
IMO Packaging Group: III
Subsidiary Risk Label: -
EMS Number: 5.1-02
MED First Aid Guide NUM: 735

=====
Detail IATA Information
=====

IATA PSN Code: NTW
IATA UN ID Num: 2984
IATA Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION
IATA PSN Modifier: WITH 8% OR MORE BUT LESS THAN 20% HYDROGEN PEROXIDE
(STABILIZED AS NECESSARY)
IATA UN Class: 5.1
IATA Label: OXIDIZER
UN Packing Group: III
Packing Note Passenger: 514
Max Quant Pass: 2.5L
Max Quant Cargo: 30L
Packaging Note Cargo: 515
Exceptions: A17

=====
Detail AFI Information
=====

AFI PSN Code: NTW
AFI Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS
AFI PSN Modifier: WITH NOT LESS THAN 8% BUT LESS THAN 20% HYDROGEN PEROXIDE
(STABILIZED AS NECESSARY)
AFI Hazard Class: 5.1
AFI UN ID NUM: UN2984
AFI Packing Group: III
Special Provisions: P5, A1, 17
Back Pack Reference: A9.7

=====
HAZCOM Label
=====

Product ID: SODIUM CARBONATE PEROXYHYDRATE
Cage: CHEMO
Assigned IND: Y
Company Name: CHEM ONE CORPORATION
City: HOUSTON TX
Zipcode: 77041-5308
Health Emergency Phone: 713-896-9966/800--424-9300
Label Required IND: Y
Date Of Label Review: 12/11/1995

Status Code: C
Label Date: 12/11/1995
Origination Code: F
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: WARNING
Respiratory Protection IND: YES
Health Hazard: Moderate
Contact Hazard: Moderate
Fire Hazard: None
Reactivity Hazard: None

Hazard And Precautions: OXIDIZER!!!IN CASE OF SPILL: VENTILATE THE
CONTAMINATED AREA. VACUUM UP THE SPILLED MATERIAL. DO NOT ALLOW THE SPILLED
PRODUCT TO ENTER PUBLIC DRAINAGE SYSTEM OR OPEN WATER COURSES. PUT IN
COVERED, CANS.FIRST AID: EYE-IMMEDIATELY FLUSH EYE S WITH PLENTY OF WATER
FOR 20 MIN. SEEK MEDICAL AID. SKIN-WASH GENTLY & THOROUGHLY WITH WATER &
NONABRASIVE SOAP. SEEK MEDICAL ADVICE. INGESTION-IMMEDIATELY GIVE LARGE
AMOUNTS OF WATER.IF VOMITING OCCURS, RINSE MOUTH & REPEAT ADMINISTRATIO N
OF WATER.INHALATION-REMOVE SOURCE OF CONTAMINATION OR MOVE VICTIM TO FRESH
AIR. IF NOT BREATHING, APPLY ARTIFICIAL RESPIRATION.

=====
Disclaimer (provided with this information by the compiling agencies): This
information is formulated for use by elements of the Department of Defense.
The United States of America in no manner whatsoever expressly or implied
warrants, states, or intends said information to have any application, use
or viability by or to any person or persons outside the Department of
Defense nor any person or persons contracting with any instrumentality of
the United States of America and disclaims all liability for such use. Any
person utilizing this instruction who is not a military or civilian
employee of the United States of America should seek competent professional
advice to verify and assume responsibility for the suitability of this
information to their particular situation regardless of similarity to a
corresponding Department of Defense or other government situation.