

LOS ANGELES CHEMICAL CO -- CALCIUM HYPOCHLORITE GRANULAR,97 D 5207

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

FSC: 6810  
NIIN: 00-255-0471  
MSDS Date: 02/09/1996  
MSDS Num: CFYDB  
Product ID: CALCIUM HYPOCHLORITE GRANULAR,97 D 5207  
MFN: 01  
Responsible Party  
Cage: 75656  
Name: LOS ANGELES CHEMICAL CO  
Address: 4545 ARDINE STREET  
Box:  
1987  
City: SOUTH GATE CA 90280-2534  
Info Phone Number: 213-583-4761 / FAX 213-773-0909  
Emergency Phone Number: 213-583-4761/562-9500  
Preparer's Name: UNKNOWN  
Review Ind: Y  
Published: Y

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

Cage: 75656  
Name: LOS ANGELES CHEMICAL CO  
Address: 4545 ARDINE ST  
Box: 1987  
City: SOUTH GATE CA 90280  
Phone: 213-562-9500

=====  
Item  
Description Information  
=====

Item Manager: S9G  
Item Name: CALCIUM HYPOCHLORITE, TECHNICAL  
Specification Number: OC114  
Type/Grade/Class: NONE  
Unit of Issue: BT  
Quantitative Expression: 00000000006OZ  
UI Container Qty: 0  
Type of Container: IP.1 OR IP.2

=====  
Ingredients  
=====

Cas: 7778-54-3  
RTECS #: NH3485000  
Name: CALCIUM HYPOCHLORITE (CERCLA)  
% W

t: 65 - 75

Other REC Limits: 3 MG/M3 (CEILING)MFR

OSHA PEL: 0.5 PPM (CL)

ACGIH TLV: 0.5PPM/1STEL(CL)9596

EPA Rpt Qty: 10 LBS

DOT Rpt Qty: 10 LBS

-----  
Cas: 7647-14-5

RTECS #: VZ4725000

Name: SODIUM CHLORIDE

% Wt: 10 - 20

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED

ACGIH TLV: NOT ESTABLISHED

-----  
Cas: 10137-74-3

RTECS #: FN9800000

Name: CALCIUM CHLORATE

% Wt: 0 - 5

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED

ACGI

H TLV: NOT ESTABLISHED

-----  
Cas: 10043-52-4

RTECS #: EV9800000

Name: CALCIUM CHLORIDE

% Wt: 0 - 5

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED

ACGIH TLV: NOT ESTABLISHED

-----  
Cas: 1305-62-0

RTECS #: EW2800000

Name: CALCIUM HYDROXIDE

% Wt: 0 - 4

Other REC Limits: NONE RECOMMENDED

OSHA PEL: 15 MG/M3 TDUST

ACGIH TLV: 5 MG/M3; 9596

-----  
Cas: 471-34-1

RTECS #: FF9335000

Name: CALCIUM CARBONATE

% Wt: 0 - 4

Ot

her REC Limits: NONE RECOMMENDED

OSHA PEL: 15 MG/M3

ACGIH TLV: 10 MG/M3

-----  
Cas: 7732-18-5

RTECS #: ZC0110000

Name: WATER

% Wt: 0 - 5.5

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT RELEVANT

ACGIH TLV: NOT RELEVANT

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

LD50 LC50 Mixture: LD50 (ORAL, RAT) IS 850 MG/KG (RTECS).

Route Of Entry Inds - Inhalation: YES

Skin: NO

Ingestion: YES

Ca

rcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: TARGET ORGANS:EYE, SKIN, RESPIRATORY & GI TRACTS.

ACUTE- DUST IRRITATES RESPIRATORY TRACT & MAY CAUSE BURNS. CORROSIVE TO EYES/SKIN. MAY CAUSE SEVERE IRRITATION AND/OR BURNS. IF SWALLOWED, CAUSES IRRITATION AND/OR BURNS OF ENTIRE GASTROINTESTINAL TRACT. CHRONIC- LUNG DAMAGE, TISSUE DESTRUCTION, CORNEAL DAMAGE.

Explanation Of Carcinogenicity: NONE

Signs And Symptoms Of Overexposure: SEVERE IRRITATION, PAIN, ULCERATION,

TEARING, BLINDNESS, SHORTNESS OF BREATH, COUGH, SORE THROAT, NASAL CONGESTION

Medical Cond Aggravated By Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

First Aid: GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:MOVE TO FRESH AIR.

PROVIDE CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. CALL PHYSICIAN. SKIN:FLUSH WITH PLENTY OF WATER.

ORAL:IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION OR TAKE VICTIM TO AN HOSPITAL EMERGENCY IMMEDIATELY.

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

Spill Release Procedures: WEAR RESPIRATOR APPROVED FOR DUST/CHLORINE. VENTILATE AREA. SWEEP UP AND MINIMIZE CONTAMINATION WITH ORGANIC MATERIALS. PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL. WASH AREA WI

TH WATER. DO NOT FLU SH TO

SEWER. COMPLY WITH HAZWOPER (29 CFR 1910.120

Neutralizing Agent: WEAK OR DILUTE ACID AND REDUCING AGENTS

Waste Disposal Methods: DISPOSAL OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. REPORTABLE QUANTITY: 10 LBS.

Handling And Storage Precautions: STORE IN COOL, DRY, VENTILATED AREA AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN.

Other Precautions: DO NOT TAKE INTERNALLY. AVOID CONTACT WITH EYES, SK

IN/CLOTHING. AVOID BREATHING DUST. CAUSES SEVERE IRRITATION AND BURNS. WASH THOROUGHLY AFTER HANDLING. DO NOT STORE ABOVE 52C/125F.

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

Flash Point Text: NONE

Lower Limits: NOT RELEVANT

Upper Limits: NOT RELEVANT

Extinguishing Media: WATER SPRAY ONLY. NOT COMBUSTIBLE, BUT MAY IGNITE COMBUSTIBLES. USE WATER SPRAY TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire Fighting Procedures: WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. DO NOT USE DRY EXTINGUISHER CONTAINING AMMONIUM COMPOUNDS.

Unusual Fire/Explosion Hazard: WILL EVOLVE CHLORINE GAS AT ELEVATED TEMPERATURES.

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

Respiratory Protection: NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, WEAR A NIOSH-APPROVED DUST AND CHLORINE RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS.

Ventilation: USE LOCAL EXHAUST VENTILATION TO MINIMIZE DUST AND CHLORINE LEVELS.

Protective Gloves: NEOPRENE, PVC, RUBBER

Eye Protection: DUST-RESISTANT SAFETY GOGGLES

Other Protective Equipment: PROTECTIVE CLOTHING, EYE-WASH FACILITIES, SAFETY SHOWER.

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

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

HCC: D1

NRC/State LIC No: NOT RELEVANT

M.P/F.P Text: UNKNOWN

Decomp Text: >351F,>177C

Spec Gravity: UNKNOWN

PH: 11.5

Viscosity: NOT RELEVANT

Evaporation Rate & Reference: NOT RELEVANT

Solubility in Water: 18% @ 25C/77F

Appearance and Odor: WHITE, FREE FLOWING GRANULES OR TABLETS FORM WITH  
CHLORINE-LIKE ODOR

Corrosion Rate: UNKNOWN  
=====

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

Stability Indicator: YES

Stability Condition To Avoid: TEMPERATURES ABOVE 125F/52C, HIGH HUMIDITY

Materials To Avoid: ACIDS, COMBUSTIBLES, ORGANICS, NITROGEN CONTAINING  
COMPOUNDS, FLAMMABLE MATERIALS, DRY FIRE EXTINGUISHER (AMMONIUM CMPD)

Hazardous Decomposition Products: CHLORINE GAS

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT  
=====

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

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

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

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

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

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

Responsible Party Cage: 75656  
Trans ID NO: 61678  
Product ID: CALCIUM HYPOCHLORITE GRANULAR,97 D 5207  
MSDS Prepared Date: 02/09/1996  
Review Date: 07/13/1998  
MFN: 1  
Radioactivity: NOT REL  
EVANT  
Net Unit Weight: 6 OZ  
Multiple KIT Number: 0  
Review IND: Y  
Unit Of Issue: BT  
Container QTY: 0  
Type Of Container: IP.1 OR IP.2  
Additional Data: HAZARD LABEL: OXIDIZER PER MSDS. REPORTABLE QUANTITY: 10 LBS,  
PER MSDS. LTD QTY. EXEMPT FROM LABELLING AND PLACARDING UNLESS SHIPPED BY  
AIR (49 CFR 173.152).

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

DOT PSN Code: CQT  
DOT Proper Shipping Name: CALCIUM  
HYPOCHLORITE, HYDRATED OR CALCIUM  
HYPOCHLORITE, HYDRATED MIXTURES,  
DOT PSN Modifier: WITH NOT LESS THAN 5.5 PER CENT BUT NOT MORE THAN 10 PER CENT  
WATER.  
Hazard Class: 5.1  
UN ID Num: UN2880  
DOT Packaging Group: II  
Label: OXIDIZER  
Packaging Exception: 152  
Non Bulk Pack: 212  
Bulk Pack: 240  
Max Qty Pass: 5 KG  
Max Qty Cargo: 25 KG  
Vessel Stow Req: A  
Water/Ship/Other Req: 50,56,58,69,106

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

=====  
IMO PSN Code: DKN  
IMO Proper Shipping Name: CALCIUM HYPOCHLORITE, HYDRATED MIXTURE  
IMO PSN Modifier: ,WITH NOT LESS THAN 5.5% BUT NOT MORE THAN 10% WATER  
IMDG Page Number: 5138  
UN Number: 2880  
UN Hazard Class: 5.1  
IMO Packaging Group: II  
Subsidiary Risk Label: -  
EMS Number: 5.1-06  
MED First Aid Guide NUM: 741  
=====

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

IATA PSN Code: EZD  
IATA UN  
ID Num: 2880  
IATA Proper Shipping Name: CALCIUM HYPOCHLORITE, HYDRATED MIXTURE  
IATA PSN Modifier: WITH NOT LESS THAN 5.5% BUT NOT MORE THAN 10% WATER  
IATA UN Class: 5.1  
IATA Label: OXIDIZER  
UN Packing Group: II  
Packing Note Passenger: 508  
Max Quant Pass: 5KG  
Max Quant Cargo: 25KG  
Packaging Note Cargo: 511  
=====

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

AFI PSN Code: EZD  
AFI Proper Shipping Name: CALCIUM HYPO  
CHLORITE HYDRATED, OR CALCIUM  
HYPOCHLORITE, HYDRATED MIXTURES  
AFI PSN Modifier: ,WITH NOT LESS THAN 5.5 BUT NOT MORE THAN 10% WATER  
AFI Hazard Class: 5.1  
AFI UN ID NUM: UN2880  
AFI Packing Group: II  
Special Provisions: P5  
Back Pack Reference: A9.8  
=====

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

Product ID: CALCIUM HYPOCHLORITE GRANULAR,97 D 5207  
Cage: 75656  
Company Name: LOS ANGELES CHEMICAL CO  
Street: 4545 ARDINE ST

PO Box: 1987  
City: SOUTH GATE CA  
Zipcode: 90280  
Health Emergency Phone: 213-583-4761/562-9500  
Label Required IND: Y  
Date Of Label Review: 02/09/1998  
Status Code: C  
MFG Label NO: UNKNOWN  
Label Date: 02/09/1998  
Year Procured: 1997  
Origination Code: G  
Eye Protection IND: YES  
Skin Protection IND: YES  
Signal Word: DANGER  
Health Hazard: Severe  
Contact Hazard: Severe  
Fire Hazard: None  
Reactivity Hazard: Slight

Hazard And Precautions: TARGET ORGANS:EYE, SKIN, RESPIRATORY & GI TRACTS.  
ACUTE- DUST I

RRITATES & MAY CAUSE BURNS. CORROSIVE TO EYES/SKIN. MAY  
CAUSE SEVERE IRRITATION & BURNS. IF SWALLOWED, CAUSES IRRITATION &  
BURNS OF GI TR ACT. CHRONIC- LUNG DAMAGE, TISSUE DESTRUCTION. STORE AWAY FROM  
INCOMPATIBLES. SWEEP UP SPILL. PLACE IN AN APPROPRIATE CONTAINER FOR  
DISPOSAL. FIRST AID- GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:M OVE TO  
FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH WATER  
FOR 15 MINUTES. HOLD EYELIDS OPEN. CALL PHYSICIAN. SKIN  
:FLUSH WITH PLENTY OF  
WATER. ORAL:IF CONSCIOUS, DRINK LARGE AMO UNT OF WATER. DO NOT INDUCE  
VOMITING. CALL DOCTOR.

=====  
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.