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OLIN CORPORATION -- CPE00201#, CALCIUM HYPOCHLORITE SANITIZER GRANULAR-60

6810-00-255-0471

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

Product ID:CPE00201#, CALCIUM HYPOCHLORITE SANITIZER GRANULAR-60

MSDS Date:04/29/1996

FSC:6810

NIIN:00-255-0471

MSDS Number: CJYGY === Responsible Party ===

Company Name: OLIN CORPORATION

Address:501 MERRITT 7

Box:4500

City:NORWALK

State:CT

ZIP:06856-4500

Country:US

Info

Phone Num:800-511-6737/203-356-3449

Emergency Phone Num:203-356-3449,CHEMTREC 800-242-9300

Resp. Party Other MSDS Num.:CPE00201#

Preparer's Name: NOT PROVIDED. Chemtrec Ind/Phone: (800)424-9300

CAGE:99530

=== Contractor Identification ===

Company Name: LOS ANGELES CHEMICAL CO

Address:4545 ARDINE ST

Box:1987

City:SOUTH GATE

State:CA ZIP:90280 Country:US

Phone:213-562-9500

Contract Num:SP0450-00-M-D251

CAGE:75656

Company Name: OLIN CORPORATION

Address:501 MERRITT 7

Box:4500

City:NORWALK

State:CT

ZIP:

06856-4500 Country:US

Phone:203-750-3000/800-511-MSDS

CAGE:99530

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

Ingred Name: CALCIUM HYPOCHLORITE (CERCLA)

CAS:7778-54-3

RTECS #:NH3485000 Minumum % Wt:55. Maxumum % Wt:80.

Other REC Limits: C 3 MG/M3 CL (OLIN)

OSHA PEL:NOT PROVIDED. ACGIH TLV:NOT PROVIDED.

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:SODIUM CHLORIDE

CAS:7647-14-5

RTECS #:VZ4725000 Minumum % Wt:10. Maxumum % Wt:20.

Other REC Limits: NONE RECOMMENDED

Ingr

ed Name: CALCIUM CHLORATE

CAS:10137-74-3 RTECS #:FN9800000 Minumum % Wt:1. Maxumum % Wt:8.

Other REC Limits: NONE RECOMMENDED

Ingred Name: CALCIUM CHLORIDE

CAS:10043-52-4 RTECS #:EV9800000 Minumum % Wt:1. Maxumum % Wt:12.

Other REC Limits: NONE RECOMMENDED

Ingred Name: CALCIUM HYDROXIDE

CAS:1305-62-0

RTECS #:EW2800000

Minumum % Wt:0. Maxumum % Wt:4.

Other REC Limits: NOT PROVIDED.

OSHA PEL:NONE ACGIH TLV:5 MG/M3

Ingred Name: CALCIUM CARBONATE

CAS:471-34-1

RTECS #:FF9335000

Minumum % Wt:0.

Maxumum %

Wt:4.

Other REC Limits:NOT PROVIDED. OSHA PEL:15 MG/M3 (TDUST) ACGIH TLV:10 MG/M3 (TDUST)

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:5.5 Maxumum % Wt:10.

Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:LD50 (ORAL, RAT) 850 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHALATION OF DUST OR VA

POR CAN

BE IRRITATING TO THE NOSE, MOUTH, THROAT AND LUNGS.IN CONFINED AREAS, DUST OR CHLORINE GAS FORMED BY REACTION WITH INCOMPATIBLES CAN RESULT IN RESPIRATORY TRACT BURNS AND LUNG DAMAGE. EYE: SEVERE IRRITATION AND BURNS. MAY CAUSE CORNEAL DAMAGE. SKIN: SEVERE IRRITATION AND/OR BURNS. PROLONGED EXPOSURE CAN CAUSE PERMANENT DAMAGE. INGESTION: IRRITATION AND OR BUR NS CAN OCCUR TO THE ENTIRE GASTROINTESTIONAL TRACT, INCLUDING THE STOMACH AND INTESTINES. DUE TO

- CORROSIVE NATURE OF THIS PRODUCT, INGESTION MAY BE FATAL.
 CHRONIC EXPOSURE MAY CAUSE TISSUE DESTRUCTION, IMPAIRMENT OF LUNG
 FUNCTION AND DAMAGE
- Explanation of Carcinogenicity:PER MSDS:PRODUCT NOT KNOWN OR REPORTED TO BE CARCINOGENIC BY ANY REFERENCE SOURCE INCLUDING IARC/OSHA/NTP/EPA.
- Effects of Overexposure:INHALATION: BURNS TO RESPIRATORY TRACT, PRODUCING LUNG EDEMA, SHORTNESS OF BREATH, WHEEZING, CHOKING, CHEST PAINS, IMPAIRMENT OF LUNG FUNCTIONS AND PERMANENT DAMAGE.

EYE:

VISION AND CORNEAL DAMAGE. SK IN: REDNESS, SWELLING AND SCAB FORMATION. INGESTION: NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN, BLEEDING, AND/OR TISSUE ULCERATION.

Medical Cond Aggravated by Exposure: ASTHMA, RESPIRATORY AND CARDIOVASCULAR DISEASE.

First Aid:EYES: IMMEDIATELY FLUSH WITH LARGE AMOUNT OF WATER FOR AT LEAST15 MINUTES, OCCASIONALLY LIFTING UPPER AND LOWER EYELIDS. CALL A PHYSICIAN AT O

NCE. SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MI NUTES. CALL A PHYSICIAN. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. INGESTION: IMMEDIATELY DRINK LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. CALL A PHYSICIAN AT ONCE. DO NOT GIVE A NYTHING BY MOUTH IF THE PERSON IS UNCONSCIOUS OR IF HAVING CONVULSIONS. INHALATION: REMOVE VICTIM TO FRESH AIR. SUPPORT RESPIRATION IF NEEDED. CALL A PHYSICIAN.

 Fire Fighting Measures	======

Lower Limits:NOT APPLICAB Upper Limits:NOT APPLICAB

Extinguishing Media:WATER ONLY.

Fire Fighting Procedures:USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.RESPONSE TO THIS MATERIAL REQUIRES THE USE OF A FULL ENCAPSULATED SUIT AND A NIOSH/MSHA APPROVED POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR. DO NOT USE DRY EXTINGUISHERS CONTAINING AMMONIUM COMPOUNDS.

Unusual Fire/Explosion Hazard:IT IS A STRONG OXIDIZER WHICH IS CAPABLE OF INTENSIFYING A FIRE ONCE STARTED.

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

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. STOP SOURCE OF SPILL. NOTIFY APPROPRIATE PERSONNEL. CONTACT OLEAN AT 1-800-OLIN-911 IMMEDIATELY. SPILLS SHOULD BE TREATED AS CONTAMINATED. MAY IGNITE COMBUSTIBLE MATERI ALS. USING A CLEAN BROOM OR SHOVEL, PLACE SPILLS INTO PLASTIC BAGS. DO NOT SEAL TIGHTLY. REMOVE TO OUTDOORS. USE A FULL ENCAPSULATED SUIT AND A NIOSH APPROVED POSITIVE PRESSURE SUPP

LIED AIR RESPIRATOR Neutralizing Agent: CALL 1-800-OLIN-911.

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

Handling and Storage Precautions: KEEP PRODUCT TIGHTLY SEALED IN ORIGINAL CONTAINERS. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM COMBUSTIBLES/FLAMMABLES. KEEP PACKAGING FREE OF CONTAMINATION. DO NOT STORE ABOVE 52C/125F SINC E IT MAY CAUSE DECOMPOSITION, EVOLUTION OF CHLORINE GAS AND HEAT SUFFICIENT TO IGNITE COMBUSTIBLES.

Other Precaution

s:DO NOT TAKE INTERNALLY. AVOID INHALATION OF DUST AND FUMES. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER. REMOVE AND WASH CONTAMINATED CLOTHING BEFO RE REUSE.

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

Respiratory Protection: WEAR NIOSH/MSHA APPROVED RESPIRATOR IF DUST IS CREATED. NIOSH/MSHA APPROVED FULL FACE-PIECE RESPIRATOR WITH CHLORINE CARTRIDGE AND DUST/ MIST PREFILTER.

Ventilation: USE LOCAL

EXHAUST VENTILATION TO MINIMIZE DUST AND CHLORINE LEVELS.

Protective Gloves: NEOPRENE

Eye Protection: CHEMICAL GOGGLES

Other Protective Equipment:BOOTS,APRONS,OR IMPERMEABLE SUIT TO AVOID SKIN/EYE CONTACT (NEOPRENE OR PVC MATL).

Work Hygienic Practices: NOT PROVIDED.

Supplemental Safety and Health

NONE

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

HCC:D1

NRC/State Lic Num:NOT RELEVANT.

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:M.P/F.P Text:NA Decomp Temp:Decomp Text:~1

70-180C

Vapor Pres:NA

Vapor Density:NA

Spec Gravity:0.8

pH:10.4-10.8(1%SOL

Viscosity:NP

Evaporation Rate & Department Reference: NA Solubility in Water: APPRECIABLE, 18%

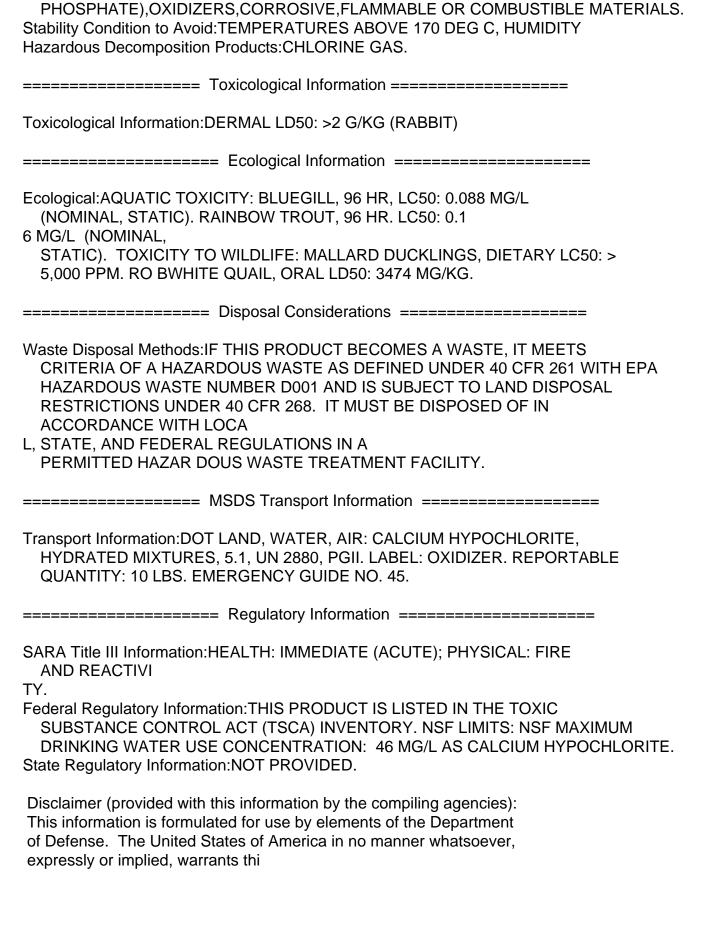
Appearance and Odor: WHITE, FREE FLOWING POWDER, CHLORINE-LIKE ODOR

Percent Volatiles by Volume:NA Corrosion Rate:NOT PROVIDED.

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

Stability Indicator/Materials to Avoid:NO

ACIDS,ORGANICS,NITROGEN CONTAINING COMPOUNDS,DRY POWDER FIRE EXTINGUISHERS(CONTAINS MONO-AMMONIUM



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