

OLIN CORP CHEMICALS GROUP -- HTH DRY CHLORINE GRANULAR -- 6810-00-255-0471

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

Product ID:HTH DRY CHLORINE GRANULAR

MSDS Date:08/01/1994

FSC:6810

NIIN:00-255-0471

Status Code:A

MSDS Number: CJLNV

=== Responsible Party ===

Company Name:OLIN CORP CHEMICALS GROUP

Address:120 LONG RIDGE RD

City:STAMFORD

State:CT

ZIP:06904

Country:US

Info Phone Num:203-356-3449

Emergency Phone Num:203-356-3449/800-OLIN-911

Resp. Party Other MSDS Num.:

CPE00002.0117

CAGE:53084

=== 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

CAGE:75656

Company Name:OLIN CORP CHEMICALS GROUP

Address:120 LONG RIDGE RD

City:STAMFORD

State:CT

ZIP:06904

Country:US

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

CAGE:53084

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

Ingred Name:CALCIUM HYPOCHLORITE (CERCLA)

CAS:7778-54-3

RTECS #:

NH3485000
Minumum % Wt:65.
Maxumum % Wt:75.
Other REC Limits:NONE RECOMMENDED
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

Ingred Name:CALCIUM CHLORATE
CAS:10137-74-3
RTECS #:FN9800000
Minumum % Wt:0.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED

Ingred Name:CALCIUM CHLORIDE
CAS:10043-52-4
RTECS #:EV9800000
Minumum % Wt:0.
Maxumum % Wt:5.
Other REC Limits:NONE RECOMMENDED

Ingred Name:CALCIUM HYDROXIDE
CAS:1305-62-0
RTECS #:EW2800000
Minumum % Wt:0.
Maxumum % Wt:4.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3

Ingred Name:CALCIUM CARBONATE
CAS:471-34-1
RTECS #:FF9335000
Minumum % Wt:0.
Maxumum % Wt:4.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 (TDUST)
OSHA STEL:5 MG/M3 (RESP)
ACGIH TLV:10 MG/M3

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Minumum % Wt:5.5
Maxumum % Wt:10.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:NOT REL

EVANT
ACGIH TLV:NOT RELEVANT

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 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:TARGET ORGANS:EYES, SKIN, RESPIRATORY
SYSTEM (HMIS). ACUTE - INHALATION: INHALATION OF THIS MATERIAL IS
IRRITATING TO NOSE, THROAT AND LUNGS. MAY ALSO CAUSE BURNS TO
RESPIRATORY TRACT WITH LUNG ED
EMA, SHORTNESS OF BREATH, WHEEZING,
CHOCKING, CHEST PAIN, PERMANENT LUNG DAMAGE. EYE: SEVERE IRRITATION
AND/OR BURNS, CORNEAL DAMAGE. SKIN: CAN CAUSE SEVERE IRRITATION
AND/OR BURNS, REDNESS, SWELLING. PRO LONGED SKIN CONTACT MAY CAUSE
DESTRUCTION OF DERMIS. INGESTION: IRRITATION AND/OR BURNS OF ENTIRE
GI TRACT, NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN, BLEEDING
AND/OR TISSUE ULCERATION. CHRONIC- TISS UE DESTRUCTION, LUNG AND
CORNEAL DAMAGE.
Explanation of Carcinogen
icity:THIS PRODUCT IS NOT KNOWN OR REPORTED TO
BE CARCINOGENIC BY ANY REFERENCE SOURCE INCLUDING IARC, OSHA, NTP,
OR EPA.
Effects of Overexposure:THIS MATERIAL IS IRRITATING TO NOSE, THROAT AND
LUNGS. MAY ALSO CAUSE BURNS TO RESPIRATORY TRACT WITH LUNG EDEMA,
SHORTNESS OF BREATH, WHEEZING, CHOCKING, CHEST PAIN, PERMANENT LUNG
DAMAGE. SEVERE EYE IRRITATION AND/OR BURNS, CORNEAL DAMAGE. CAN
CAUSE SEVERE SKIN IRRITATION AND/OR BURNS, REDNESS, SWELLING.
PROLONGED SKIN CON
TACT MAY CAUSE DESTRUCTION OF DERMIS. INGESTION
CAN CAUSE IRRITATION AND/O R BURNS OF ENTIRE GASTROINTESTINAL TRACT
INCLUDING STOMACH AND INTESTINE, NAUSEA, VOMITING, DIARRHEA,
ABDOMINAL PAIN, BLEEDING AND/OR TISSUE ULCERATION.
Medical Cond Aggravated by Exposure:ASTHMA, RESPIRATORY AND
CARDIOVASCULAR DISEASES

===== First Aid Measures =====

First Aid:EYES: IMMEDIATELY FLUSH WITH LARGE AMOUNT OF WATER FOR AT
LEAST15 MINUTES, OCCASIONALLY

LIFTING UPPER AND LOWER EYELIDS. CALL A PHYSICIAN AT ONCE. SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. 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 ANYTHING 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 =====

Flash Point:NONE
Lower Limits:NOT RELEVANT
Upper Limits:NOT RELEVANT
Extinguishing Media:NOT APPLICABLE.
Fire Fighting Procedures:USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.
DO NOT USE DRY EXTINGUISHERS CONTAINING AMMONIUM COMPOUNDS.

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

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. STOP SOURCE OF SPILL AS SOON AS POSSIBLE AND NOTIFY APPROPRIATE PERSONNEL.
CONTAINERIZE ALL VIRGIN MATERIAL IN A CLEAN DRY CONTAINER USING CLEAN DEDICATED EQUIPMENT TO CLEAN UP MATERIAL. CONTAINERIZE ALL CONTAMINATED MATERIAL IN A CLEAN DRY CONTAINER AND REMOVE TO A WELL VENTILATED AREA BEING SURE NOT TO SEAL TIGHTLY. CONTAMINATED SPILL MAY BECOME A HAZARDOUS WASTE.
Neutralizing Agent:N/P. WEAK OR DILUTE ACID (HMIS)

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

Handling and Storage Precautions:KEEP TIGHTLY SEALED. STORE IN COOL, DRY, WELL-VENTILATED AREA. DO NOT STORE AT TEMPERATURES ABOVE 52C (125F).
Other Precautions:DO NOT TAKE INTERNALLY. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER.

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

Respiratory Protection:WEAR NIOSH/MSHA APPROVED RESPIRATOR.
Ventilation:USE LOCAL EXHAUST VENTILATION TO MINIMIZE DUST AND CHLORINE LEVELS.
Protective Gloves:NEOPRENE, PVC, RU

BBER
Eye Protection:CHEMICAL GOGGLES
Other Protective Equipment:IMPERMEABLE SUIT TO AVOID SKIN & EYE
CONTACT. NEOPRENE OR PVC BOOTS NEOPRENE OR PVC APRON. FACE SHIELD
&/OR PROTECTIVE SUIT NOT NORMALLY REQUIRED.
Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING,
DRINKING/SMOKING.
Supplemental Safety and Health

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

HCC:D1
NRC/State Lic Num:NOT
RELEVANT
Decomp Temp:=176.7C, 350.F
Spec Gravity:0.8
pH:10.5-11.5 (1%)
Solubility in Water:18% @ 25C/77F
Appearance and Odor:WHITE FREE FLOWING POWDER WITH CHLORINE-LIKE ODOR

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

Stability Indicator/Materials to Avoid:YES
ACIDS, ORGANICS, NITROGEN CONTAINING COMPOUNDS, FLAMMABLE OR
COMBUSTIBLE MATERIALS, DRY POWDER FIRE EXTINGUISHER (CONTAINING
MONO-AMMONIUM PHOSPHATE), AND CORROSIVE.
Stability Condition to Avoid:TEMPERAT
URES ABOVE 125F/52C, HIGH HUMIDITY
Hazardous Decomposition Products:CHLORINE GAS
Conditions to Avoid Polymerization:WILL NOT OCCUR

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

Toxicological Information:DERMAL LD50: > 2 G/KG (RABBIT). INHALATION
LC50: APPROXIMATELY 1700 MG/CUBIC METER FOR 1 HOUR IN THE RAT BASED
ON ACUTE TOXICITY FOR CHLORINE.

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

Waste Disposal Methods:IF THIS PRODUCT BECOMES A WA

STE, IT MEETS

CRITERIA OF A HAZARDOUS WASTE AS DEFINED UNDER 40 CFR 261 AND WOULD HAVE EPA HAZARDOUS WASTE NUMBER D001. IF THIS PRODUCT BECOMES A WASTE, IT WILL BE A HAZARD OUS WASTE WHICH IS SUBJECT TO LAND DISPOSAL RESTRICTIONS UNDER 40 CFR 268 AND MUST BE MANAGED ACCORD INGLY.

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

SARA Title III Information:PER 40 CFR 370.2: HEALTH: IMMEDIATE (ACUTE).
PHYSICAL: FIRE AND REACTIVITY.

Federal Regulatory In

formation:THIS SUBSTANCE IS LISTED ON THE TOXIC

SUBSTANCE CONTROL ACT (TSCA) INVENTORY. REGULATED UNDER FIFRA, USDA AND FDA.

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