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ARCH CHEMICALS, INC. -- CALCIUM HYPOCHLORITE EXTRA DRY -- 6810-00-255-0471

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

Product ID:CALCIUM HYPOCHLORITE EXTRA DRY

MSDS Date:03/30/1999

FSC:6810

NIIN:00-255-0471

Status Code:A

MSDS Number: CKPND === Responsible Party ===

Company Name: ARCH CHEMICALS, INC.

Address:501 MERRITT 7

Box:5204

City:NORWALK

State:CT

ZIP:06856-5204

Country:US

Info Phone Num:800-511-MSDS

Emergency Phone Num:800-654-6911

Resp. Party Other MSDS Num.:00025-0027-30000

Chemtrec Ind/Phone:(800)424-9300

CAGE:TO530

=== Contractor Identification ===

Company Name: ARCH CHEMICALS, INC.

Address:501 MERRITT 7

Box:5204

City:NORWALK

State:CT

ZIP:06856-5204

Country:US

Phone:800-511-MSDS

CAGE:TO530

Company Name: COMPTECH CORP

Address:15944 DERWOOD RD

Box:City:ROCKVILLE

State:MD ZIP:20855 Country:US

Phone:800-284-5279; 301-519-3401 Contract Num:SP0450-00-M-SC11

CAGE:0BR38

====== Compositio

n/Information on Ingredients =======

Ingred Name: CALCIUM HYPOCHLORITE

CAS:7778-54-3

RTECS #:NH3485000

Minumum % Wt:65.

Maxumum % Wt:90.

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name: SODIUM CHLORIDE

CAS:7647-14-5

RTECS #:VZ4725000

Minumum % Wt:0.

Maxumum % Wt:3.

Ingred Name: CALCIUM CHLORATE

CAS:10137-74-3

RTECS #:FN9800000

Minumum % Wt:0.

Maxumum % Wt:5.

Ingred Name: CALCIUM CHLORIDE

CAS:10043-52-4

RTECS #:EV9800000

Minumum % Wt:0.

Maxumum % Wt:5.

Ingred Name: CALCIUM HYDROXIDE

CAS:

1305-62-0

RTECS #:EW2800000

Minumum % Wt:0.

Maxumum % Wt:5.

OSHA PEL:15 MG/M3

ACGIH TLV:5 MG/M3

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:8.

Maxumum % Wt:16.

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

LD50 LC50 Mixture: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:INHALATION OF DUST OR

VAPOR FROM THIS PRODU

CT CAN BE IRRITATIN TO THE NOSE, MOUSE,

THROAT, AND LUNGS. IN CONFINED AREAS, MECHANICAL AGITATION CAN RESULT IN HIGH LEVELS OF DUST, AND RE ACTION WITH INCOMPATIBLE MATERIALS CAN RESULT IN HIGH CONCENTRATIONS OF CHLORINE VAPOR, EITHER OF WHICH MAY RESULT IN BURNS TO THE RESPIRATORY TRACT, PRODUCING LUNG EDEMA, SHORTNESS OF BREATH, WHEEZIN G, CHOKING, CHEST PAIN, IMPAIRMENT OF LUNG FUNCTION AND POSSIBLE PERMANENT LUNG DAMAGE. EYE: SEVERE IRRITATION AND/OR BURNS CAN OC

CUR FOLLOWING EYE

EXPOSURE. CONTACT MAY CAUSE IMPAIRMENT OF VISION AND CORNEAL DAMAGE. SKIN:DERMAL EXPOSURE C

Explanation of Carcinogenicity:THIS PRODUCT IS NOT KNOWN OR REPORTED TO BE CARCONOGENIC BY ANY REFERENCE SOURCE, INCLUDING:IARC, OSHA, NTP OR EPA. ONE HUNDRED MICE WERE EXPOSED DERMALLY 3 TIMES A WEEK FOR 18 MONTHS TO A SOLUTION OF CALCIUM HYPOCHLORITE. HISTOPATHOLOGICAL EXAMINATION FAILED TO SHOW AN INCREASED INCIDENCE OF TUMORS.

Effects of Overexposure: ACUTE-IN

HALATION: IRRITATION, BURNS TO THE

RESPIRATORY TRACT, LUNG EDEMA, SHORTNESS OF BREATH, WHEEZING, CHOKING, CHEST PAINS, IMPAIRMENT OF LUNG FUNCTION AND POSSIBLE PERMANENT LUNG DAMAGE. EYES:IRRIT ATION, BURNS, IMPAIRMENT OF VISION, CORNEAL DAMAGE. SKIN:IRRITATION, BURNS, REDNESS, SWELLING, SCAB FORMATION. INGESTION:IRRITATION, BURNS TO GASTROINTESTINAL TRACT, INCLUDING THE STOMACH AND INTESTIN ES, NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN, BLEEDING, TISSUE ULCERATION.

CHRONIC-INGESTION:TISSUE DISTRUCTION.

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

	First Aid Measures	
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First Aid:EYES:IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CALL A PHYSICIAN AT ONCE. SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. IF CLOTHING COMES IN CONTACT WITH THE PRODU

CT, IT SHOULD BE REMOVED IMMEDIATELY AND LAUNDERED 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.

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Extinguishing Media:WATER ONLY Fire Fighting Procedures:USE WA

- TER TO COOL CONTAINERS EXPOSE TO FIRE.
 - RESPONSE TO THIS MATERIAL REQUIRES THE USE OF A FULL ENCAPSULATED SUIT AND A NIOSH APPROVED POSITIVE PRESSURE SUPPLIED AIR RESPIRATOR.
- Unusual Fire/Explosion Hazard:THIS PRODUCT IS CHEMICALLY REACTIVE WITH MANY SUBSTANCES. ANY CONTAMINATION OF THE PRODUCT WITH OTHER SUBSTANCES BY SPILL OR OTHERWISE MAY RESULT IN A CHEMICAL REACTION AND FIRE. THIS PRODUCT IS A STR ONG OXIDIZER WHICH IS CAPABLE OF INTENSIFYING A FIRE ONCE STARTED.

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

Spill Release Procedures:HAZARDOUS CONCENTRATIONS IN AIR MAY BE FOUND IN LOCAL SPILL AREA AND IMMEDIATELY DOWNWIND. REMOVE ALL SOURCES OF IGNITION. STOP SOURCE OF SPILL AS SOON AS POSSIBLE AND NOTIFY APPROPRIATE PERSONNEL.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

- Handling and Storage Precautions: KEEP PRODUCT TIGHTLY SEALED IN ORIGIN
- AL CONTAINERS. STORE PRODUCT IN A COOL, DRY, WELL-VENTILATED AREA. STORE AWAY FROM COMBUSTIBLE OR FLAMMABLE PRODUCTS. KEEP PRODUCT PACKAGING CLEAN AND FREE OF ALL CONTAMINATION, INCLUDING, E.G. OTHER POOL TREATMENT PRODUCTS, ACIDS, ORGANIC MATERIALS, NITROGEN-CON
- Other Precautions:DO NOT TAKE INTERNALLY. AVOID INHALATION OF DUST & FUMES. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER. REMOVE AND WASH CONTAMINATED CLOTHI

NG BEFORE R EUSE.

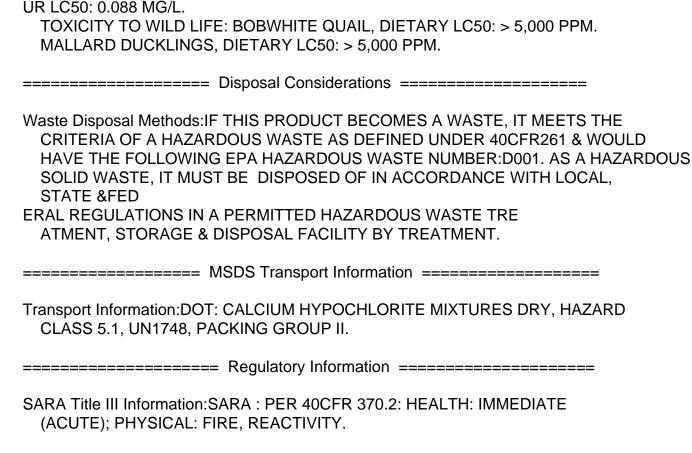
====== Exposure Controls/Personal Protection ========

Respiratory Protection:WEAR NIOSH APPROVED RESPIRATOR IF DUSTS ARE CREATED. NIOSH APPROVED FULL FACE-PIECE RESPIRATOR WITH CHLORINE CARTRIDGES AND DUST/MIST PREFILTER.

Ventilation:USE LOCAL EXHAUST VENTILATION TO MINIMIZE DUST AND CHLORINE LEVELS WHERE INDUSTRIAL USE OCCURS. OTHERWISE ENSURE GOOD GENERAL VENTILATION.

Protective Gloves: NEOPRENE GLOVES. Eye Protection: CHEMICAL GOGGLES Other Prot

ective Equipment:WHERE INDUSTRIAL USE OCCURS, FULL IMPERMEABLE SUIT MAY BE REQUIRED. WEAR PROTECTIVE NEOPRENE CLOTHING: BOOTS, APRON, PROTECTIVE SUIT. Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health
NONE SPECIFIED BY MANUFACTURER.
========= Physical/Chemical Properties ==========
HCC:D1 Decomp Temp:=170.C, 338.F Decomp Text:170-180C;338-356F Vapor Pres:N/A @ 25C
pH:10.5-11.5 Solubility in Water:APPROXIMATELY 18% @ 25C Appearance
and Odor:WHITE, FREE FLOWING POWDER. ===================================
Stability Indicator/Materials to Avoid:YES THIS PRODUCTS IS CHEMICALLY REACTIVE WITH MANY SUBSTANCES, INCLUDING E.G., OTHER POOL TREATMENT PRODUCTS, ACIDS, ORGANICS, NITROGEN-CONTAINING COMPOUNDS, DRY POWDER FIRE EXTINGUISHERS, OXIDIZERS, CORROSIVE, FLAMMABLE OR CO Stability Condition to Avoid:TEMPERATURES ABOVE 170C (338F); STORAGE AT EMPERATURES >125DF (52C). PREVENT ING RESS OF HUMIDITY AND MOISTURE INTO CONTAINER OR PACKAGE. ALWAYS CLOSE THE LID. Hazardous Decomposition Products:CHLORINE GAS. Conditions to Avoid Polymerization:WILL NOT OCCUR.
========= Toxicological Information ==========
Toxicological Information:CHRONIC TARGET ORGAN TOXICITY FOR ANIMAL: THERE ARE NO KNOWN OR REPORTED EFFECTS FROM REPEATED EXPOSURE.
========= Ecological Information ===========
Ecological:AQUATIC TOXICITY: BLUEGILL, 96 HO



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