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ARCH CHEMICALS, INC. -- PRO PURE CALCIUM HYPOCHLORITE -- 6810-00-255-0471

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

Product ID:PRO PURE CALCIUM HYPOCHLORITE

MSDS Date: 10/05/1999

FSC:6810

NIIN:00-255-0471

Status Code:A

MSDS Number: CLGFM === 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

Em

ergency Phone Num:800-654-6911

Resp. Party Other MSDS Num.:00002-0191-30071

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: TELECHEM INTERNATIONAL, INC

Address:524 E WEDDELL DRIVE SUITE 3

Box:City:SUNNYVALE

State:CA

ZIP:94089-2115

Country:US

Phone:916-941-3688

Contract Num:SP0450-01-M-ZD85

CAGE:1KH20

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

Ingred Name: CALCIUM HYPOCHLORITE

CAS:7778-54-3

RTECS #:NH3485000

Minumum % Wt:60.

Maxumum % Wt:80.

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.

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:4.

OSHA PEL:15 MG/M3

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CGIH TLV:5 MG/M3

Ingred Name: CALCIUM CARBONATE

CAS:471-34-1

RTECS #:FF9335000

Minumum % Wt:0.

Maxumum % Wt:4.

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:5.5

Maxumum % Wt:10.

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

LD50 LC50 Mixture: ORAL LD50 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:INHALATION: IRRITATING TO THE NOSE,

MOUTH,

THROAT & LUNGS. VAPORS CAN CAUSE BURNS TO THE RESPIRATORY TRACT, PRODUCING LUNG EDEMA & IMPAIRMENT OF LUNG FUNCTION. POSSIBLE PERMANENT LUNG DAMAGE. EYES: S EVERE IRRITATION. MAY CAUSE IMPAIRMENT OF VISION & CORNEAL DAMAGE. SKIN: CAN CAUSE SEVERE IRRITATION & BURNS. MAY CAUSE PERMANENT DAMAGE. INGESTION: IRRITATION & BURNS CAN CAUSE GASTROINTESTINAL TRA CT & TISSUE ULCERATION. CHRONIC- INHALATION:MAY CAUSE IMPAIRMENT OF LUNG FUNCTION & PERMANENT LUNG DAMAGE.

Expla

nation of Carcinogenicity:THIS PRODUCT IS NOT KNOWN OR REPORTED TO BE CARCINOGENIC.

Effects of Overexposure:INHALATION: SHORTNESS OF BREATH, WHEEZING, CHOKING, CHEST PAINS. SKIN: REDNESS, SWELLING & 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:EYE: IMM

EDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING UPPER AND LOWER EYELIDS. CALL PHYSICIAN AT ONCE. SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MIN UTES. CALL PHYSICIAN. IF CLOTHING COMES IN CONTACT WITH PRODUCT, IT SHOULD BE REMOVED IMMEDIATELY AND LAUNDERED BEFORE REUSE. INGESTION: IMMEDIATELY DRINK LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMI TING. CALL PHYSICIAN AT ONCE. DO NOT GIVE ANYTHING BY MOUTH IF THE PERSON IS U

NCONSCIOUS OR HAVING CONVULSIONS.

INHALATION: REMOVE VICTIM TO FRESH AIR. SUPPORT RESPIRATION IF NEEDED. CALL PHYSICIAN.

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 APPROVED POSITIVE PRESSURE SUPPLIED AIR
RESPIRATOR.

======= Accidental Release Measures =

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Spill Release Procedures: REMOVE ALL SOURCES OF IGNITION. STOP SOURCE OF SPILL AS SOON AS POSSIBLE. AIR RELEASE- SUPPRESS VAPORS BY USE OF A WATER FOG. ALL WATER MUST BE CONTAINED & DISPOSED OF. WATER RELEASE- MATERIAL IS HEAV IER THAN WATER & SOLUBLE. ADVISE LOCAL AUTHORITIES OF ANY CONTAMINATED WATER RELEASE. LAND SPILL- CONTACT 1-800-643-6911 IMMEDIATELY. DANGER. (SEE OTHER INFORMATION.) Neutralizing Agent: THIS MATERIAL MAY BE NEUTRALIZED FOR DISPOSAL; YO ARE REQUESTED TO CONTACT AT 800-645-6911. ============= Handling and Storage ========================== Handling and Storage Precautions: KEEP PRODUCT TIGHTLY SEALED IN ORIGINAL CONTAINERS. STORE PRODUCT IN A COOL, DRY, WELL VENTILATED AREA. KEEP FREE FROM INCOMPATIBLE MATERIALS. DO NOT STORE AT TEMPERATURES ABOVE 52 DEG. C (125 DEG. F). ===== Exposure Controls/Personal Protection ======== Respiratory Protection: WEAR NIOSH APPROVED RESPIRATOR IF DUSTS A RE CREATED. NIOSH APPROVED FULLL 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. ENSURE GOOD GENERAL VENTILATION. Protective Gloves:WEAR NEOPRENE GLOVES Eye Protection: SAFETY GLASSES; CHEMCIAL GOGGLES FOR INDUSTRIAL USE Other Protective Equipment: WHERE INDUSTRIAL USE OCCURS, CHEMICAL GOGGLES OR FULL IMPERMEABLE SUIT MAY BE REQUIRED. NEOPRENE (THI S INCLUDES: GLOVES, BOOTS, APRON, PROTECTIVE SUIT.) Supplemental Safety and Health ======== Physical/Chemical Properties =========== HCC:D1 Vapor Density: 0.8G/CC pH:10.4-10.8 (@1%)

Evaporation Rate & Dr. Reference: NA

Solubility in Water:~18%@25C

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

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

Stability Indicator/Materials to Avoid:YES OTHER POOL TREATMENT PRODUCTS, ACIDS, ORGANICS,

NITROGEN-CONTAINING COMPOUNDS, DRY POWDER FIRE EXTINGUISHERS(MONO-AMMONIUM PHOSPHATE), OXIDIZERS, CORROSIVE, FLAMMABLE OR COMBUSTIBLE MATERIALS. Stability Condition to Avoid:TEMPERATURES ABOVE 170C Hazardous Decomposition Products:CHLORINE GAS
======== Toxicological Information =========
Toxicological Information:DERMAL LD50: >2 G/KG (RABBIT). REPRODUCTIVE TOXICITY: CALCIUM HYPOCHLORITE IS NOT A TERATOGEN. MUTAGENICITY: THE RISK OF GENETIC DAMAGE TO HUMANS IS JUDGED NOT SIGNIFICANT.
======== Ecological Information ==========
Ecological:AQUATIC TOXICITY: BLUEGILL, 96 HR LC50: 0.088 MG/L (NOMINAL, STATIC). RAINBOW TROUT, 96 HR LC50: 0.16 MG/L (NOMINAL, STATIC). DAPHNIA MAGNA, 48 HR LC50: 0.11 MG/L (NOMINAL, STATIC).
======= Disposal Considerations ==========
Waste Disposal Methods: AS A HAZARDOUS SOLID WASTE, IT MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULA
TIONS IN A PERMITTED HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITY BY TREATMENT.
======== MSDS Transport Information ==========
Transport Information:THIS MATERIAL IS REGULATED AS A DOT HAZARDOUS MATERIAL. DOT DESCRIPTION: CALCIUM HYPOCHLORITE, HYDRATED MIXTURES, 5.1, UN1880, PG II. REPORTABLE QUANTITY: 10 LBS. (PER 49 CFR 172.101, APPENDIX).
============ Regulatory Information ==============
SARA Title III Information:H AZARD CATEGORIES, PER 40 CFR 370.2-

HEALTH: IMMEDIATE (ACUTE), PHYSICAL: FIRE AND REACTIVITY. EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOW, PER 40 CFR 355, APP.A- EXTREME HAZARDOUS SUBSTANCE - THRES HOLD PLANNING QUANTITY: NONE ESTABLISHED. SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45: NONE ESTABLISHED.

Federal Regulatory Information:TOXIC SUBSTANCES CONTROL ACT: THIS SUBSTANCE IS LISTED ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY. REGULATED UNDER FIFRA,

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

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