View NSN Online: https://aerobasegroup.com/nsn/6840-01-358-4336

ARCH CHEMICALS, INC. -- HTH DRY CHLORINE GRANULAR -- 6810-01-358-4336

Product ID:HTH DRY CHLORINE GRANULAR

MSDS Date:10/21/1999

FSC:6810

NIIN:01-358-4336

Status Code:A

MSDS Number: CKDCS === 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:1-800-654-6911

Resp. Party Other MSDS Num.:00002-0182-14432

Preparer's Name: NOT PROVIDED. 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:SP0450-00-M-D590

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

Ingred Name: CALCIUM HYPOCHLORITE

CAS:7778-54-3

RTECS #:NH3485000

Minumum % Wt:60.

Maxumum % Wt:80.

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

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: NOT PROVIDED.

OSHA PEL:NOT ESTABLISHED.

ACGIH TLV:NOT ESTABLISHED.

Ingred Name:CALC

IUM CHLORATE

CAS:10137-74-3

RTECS #:FN9800000

Minumum % Wt:0.

Maxumum % Wt:5.

Other REC Limits: NOT PROVIDED.

OSHA PEL:NOT ESTABLISHED.

ACGIH TLV:NOT ESTABLISHED.

Ingred Name: CALCIUM CHLORIDE

CAS:10043-52-4

RTECS #:EV9800000

Minumum % Wt:0.

Maxumum % Wt:5.

Other REC Limits: NOT PROVIDED.

OSHA PEL:NOT ESTABLISHED.

ACGIH TLV:NOT ESTABLISHED.

Ingred Name: CALCIUM HYDROXIDE

CAS:1305-62-0

RTECS #:EW2800000

Minumum % Wt:0.

Maxumum % Wt:4.

Other REC Limits: NOT PROVIDED.

OSHA PEL:15 MG/M3

ACGIH TLV:5 MG/

Ingred Name: CALCIUM CARBONATE

CAS:471-34-1

RTECS #:FF9335000

Minumum % Wt:0.

Maxumum % Wt:5.

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:NOT PROVIDED.

OSHA PEL:NOT ESTABLISHED.

ACGIH TLV:NOT ESTABLISHED.

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

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: DUST/VAPOR CAN BE IRRITATING TO NOSE, MOUTH, THROAT, AND LUNGS. IN CONFINED AREAS, REACTION WITH INCOMPATIBLES CAN RESULT IN HIGH CONCENTRATIONS OF CHLORINE VAPOR WHICH MAY RESULT I N BURNS TO REPIRATORY TRACT, PRODUCING LUNG EDEMA, SHORTNESS OF BREATH, WHEEZING, CHOKING, CHEST PAINS. EYE: SEVERE IRRITATION AND/OR BURNS, CORNEAL DAMAGE. SKIN: SEVERE

IRRITATION AND/OR BURNS, REDNE SS, SWELLING. INGESTION:

IRRITATION AND/OR BURNS CAN OCCUR TO THE ENTIRE GASTROINTESTINAL TRACT, CHARACTERIZED BY NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN, BLEEDING, AND/OR TISSUE ULCERATION. MAY BE FATAL. CHRONIC: LUNG AND TISSUE DAMAGE.

Explanation of Carcinogenicity:THIS PRODUCT IS NOT KNOWN OR REPORTED TO BE CARCINOGENIC BY ANY REFERENCE SOURCE, INCLUDING IARC, OSHA, NTP OR EPA.

Effects of Overexposure: DUST/VAPOR CAN BE IRRITATING TO N

OSE, MOUTH,

THROAT, AND LUNGS. IN CONFINED AREAS, REACTION WITH INCOMPATIBLES CAN RESULT IN HIGH CONCENTRATIONS OF CHLORINE VAPOR WHICH MAY RESULT IN BURNS TO REPIRATO RY TRACT, PRODUCING LUNG EDEMA, SHORTNESS OF BREATH, WHEEZING, CHOKING, CHEST PAINS. EYE: SEVERE IRRITATION AND/OR BURNS, CORNEAL DAMAGE. SKIN: SEVERE IRRITATION AND/OR BURNS, REDNESS, SWELLING. INGES TION: IRRITATION AND/OR BURNS CAN OCCUR TO THE ENTIRE GASTROINTESTINAL TRACT, CHARACTERIZED BY NAUS

EA, VOMITING, DIARRHEA, ABDOMINAL PAIN, BLEEDING, AND/OR TISSUE ULCERATION.

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

======= Fir	rst Aid Measures	
-------------	------------------	--

First Aid:EYES: IMMEDIATELY FLUSH WITH LARGE AMOUNT 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 PHYSICAN. IF CLOTHI

NGCOMES IN CONTACT

WITH THE PRODUCT, IT SHOULD BE REMOVED IMMEDIATELY AND LAUNDERED BEFORE REUSE. INGESTION: IMMEDIATELY DRINK LARGE QUANTITIES OF WATER. DO NOT I NDUCE 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 Fig	ghting Measures =============
------------------	--------------------------------

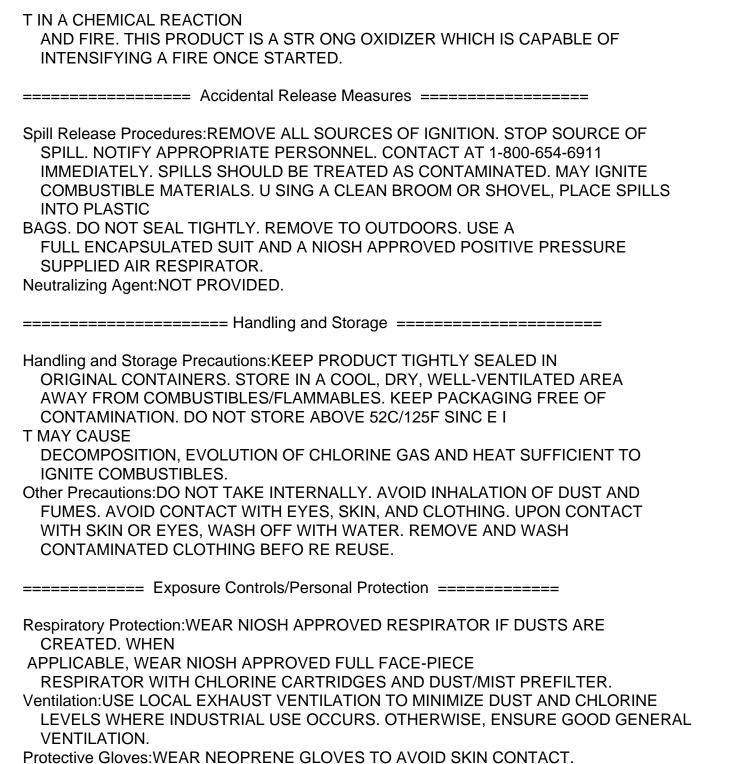
Flash Point: NOT APPLICAPL

E.

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. DO NOT USE DRY EXTI NGUISHERS CONTAINING AMMONIUM COMPOUNDS.

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 RESUL



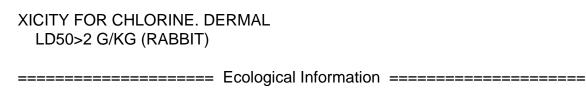
Eye Protection: WEAR SAFETY GLASSED TO AVOID EYE CONTACT.

Work Hygienic Practices: NOT PROVIDE

Other Protective Equipment: WEAR NEOPRENE BOOTS, APRON, PROTECTIVE SUIT.

D. Supplemental Safety and Health WHERE INDUSTRIAL USE OCCURS, CHEMICAL GOGGLES OR FULL IMPERMEABLE SUIT MAY BE REQUIRED.
======== Physical/Chemical Properties =========
HCC:D1 NRC/State Lic Num:NOT RELEVANT. Boiling Pt:B.P. Text:NOT APPLICAPLE. Melt/Freeze Pt:M.P/F.P Text:NOT APPLICAPLE. Decomp Temp:Decomp Text:338-356F Vapor Pres:NOT APPLICAPLE. Spec Gravity:0.8 pH:10.4-10.8 (1%) Viscosity:NOT APPLICAPLE. Evaporation Rate & amp; Reference:NOT APPLICAPLE. Solubility in Water:APPROXIMATELY 18% @25C Appearance and Odor:WHITE, FREE FLOWING POWDER. CHLORINE-LIKE ODOR. Percent Volatiles by Volume:NOT RELEVANT Corrosion Rate:NOT PROVIDED.
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES CHEMICALLY REACTIVE WITH MANY SUBSTANCES, INCLUDING, E.G., OTHER POOL TREATMENT PRODUCTS, ACIDS, ORGANICS, NITROGEN-CONTAINING COMPOUNDS, DRY POWDER FIRE EXTINGUISHERS (CONTAINING MONO-AMMONIUM PHOSPHATE), O XIDIZERS, CORROS
Stability Condition to Avoid:STORAGE AT TEMPERATURES >125 DEG. F (52 DEG. C) PREVENT INGRESS OF HUMIDITY AND MOISTURE INTO CONTAINER OR PACKAGE. ALWAYS CLOSE THE LID. TEMPERATURES > 170C/338F. Hazardous Decomposition Products:CHLORINE GAS. Conditions to Avoid Polymerization:WILL NOT OCCUR.
Toxicological Information

Toxicological Information:INHALATION LC50: APPROXIMATELY 1300 MG/M3 (1 HR., RAT) - BASED ON ACUTE INHALATION TO



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). TOXICITY TO W ILDLIFE: BOBWHITE QUAIL, DIETARY LC50: > 5,000 PPM. MALLARD DUCKLINGS, DIETARY LC50: > 5,000 PPM. ROBWHITE QUAIL, ORAL LD50: 3474 MG/KG.

=====

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

Waste Disposal Methods:IF THIS PRODUCT BECOMES A WASTE, IT MEETS CRITERIA OF A HAZARDOUS WASTE AS DEFINED UNDER 40 CFR 261 WITH EPA HAZARDOUS WASTE NUMBER D001 AND IS SUBJECT TO LAND DISPOSAL RESTRICTIONS UNDER 40 CFR 268. IT MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS IN A PERMITTED HAZAR DOUS WASTE TREATMENT FACILITY.

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

Transport Information:LAND (U.S. DOT): CALCIUM HYPOCHLORITE, HYDRATED MIXTURES, 5.1, UN 2880, PGII. WATER (IMO): SAME AS ABOVE. AIR (IATA/ICAO): SAME AS ABOVE. HAZARD LABEL/PLACARD: OXIDIZER. REPORTABLE QUANTITY: 10 LBS. (PER 49 CFR 172.101, APPENDIX). EMERGENCY GUIDE NO. 45.

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

SARA Title III Information:HEALTH: IMMEDIATE (ACUTE); PHYSICAL: FIRE AND REACTIVITY.

Federal Regulatory Information:TOXIC SUBSTANCES CONTROL ACT: THIS

PRODUCT IS LISTED IN THE TOXIC SUBSTANCES CONTROL ACT INVENTORY. NSF LIMITS: NSF MAXIMUM DRINKING WATER USE CONCENTRATION: 46 MG/L AS CALCIUM HYPOCHLORITE.

State Regulatory Information:

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 this information to be accur

ate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.