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PPG INDUSTRIES INC CHEMICAL DIVISION -- CALCIUM HYPOCHLORITE (120-709)

6810-01-358-4336

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

Product ID:CALCIUM HYPOCHLORITE (120-709)

MSDS Date:06/15/1998

FSC:6810

NIIN:01-358-4336

MSDS Number: BPVSJ

=== Responsible Party ===

Company Name: PPG INDUSTRIES INC CHEMICAL DIVISION

Address: ONE GATEWAY CENTER

City:PITTSBURGH

State:PA

ZIP:15222-1416

Country:US

Info Phone

Num:412-434-3131

Emergency Phone Num:304-843-1300 Preparer's Name:R.KENNETH LEE

CAGE:93915

=== Contractor Identification ===

Company Name: AQUA-CHEM INC, WATER TECHNOLOGIES DIV

Box:421

City:MILWAUKEE

State:WI ZIP:53201 Country:US

Phone:202-483-7616,800-424-9300(CHEMTREC)

CAGE:09647

Company Name: PHOENIX INDUSTRIES INC Address: 1519 CHAMBERLAYNE PARKWAY

Box:City:RICHMOND

State:VA ZIP:23222 Country:US

Phone:804-264-5183/FAX: 264-5535 Contract Num:SP0450-00-M-SA54

CAGE:0YED2

Company Name: PPG INDUSTRIE

Address:ONE GATEWAY CENTER City:PITTSBURGH State:PA ZIP:15222-1416 Country:US Phone:304-843-1300 CAGE:93915
======= Composition/Information on Ingredients ========
Ingred Name:CALCIUM HYPOCHLORITE (CONTAINING 65% AVAILABLE CHLORINE) CAS:22464-76-2 RTECS #:NH3485500 > Wt:65.
Ingred Name:INERT INGREDIENTS (INCLUDE 5.5-10% MOISTURE) &It Wt:35.
========== Hazards Identification ===========
LD50 LC50 Mixture:LD50 (RAT) = 850 MG/KG
outes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE- CORROSIVE TO ALL BODY TISSUES. EYES/SKIN/INHALATION:IRRITATION. PULMONARY EDEMA AND EYE DAMAGE IS POSSIBLE. INGESTION:SEVERE BURNS TO THE DIGESTIVE TRACT AND CAN BE FATAL. CHROMIC:LUNG DISEASE FROM INHALATION OF DUST. Explanation of Carcinogenicity:NONE LISTED Effects of Overexposure:IRRITATION AND BURNS OF TISSUES; COUGHING AND
DI FFICULTY IN BREATHING, BURNIG OF MOUTH AND STOMACH, DIARRHEA. Medical Cond Aggravated by Exposure:LUNG DISEASES.
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First Aid:EYES AND SKIN:FLUSH WITH LARGE AMOUNT OF WATER FOR ABOUT 15-20 MINUTES; SEEK MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING AND SHOES INHALATION:REMOVE TO FRESH AIR; IF NOT BREATHING, GIVE

S INC CHEMICAL DIVISION

G ARTIFICI AL RESPIRATION, PREFERRABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL

A PHYSICIAN. INGESTION: GIVE AT LEAST 3-4 GLASSES OF WATER, DO NOT INDUCE VOMITING, DO NOT GIVE ANYTHING BY MOUT H TO AN UNCONSCIOUS OR CONVULSING PERSON. SEEK MEDICAL ATTENTION IMMEDIATELY. Flash Point:NONE Extinguishing Media: USE WATER ONLY; SMOTHERING IS INEFFECTIVE; PRODUCT SUPPLIES ITS OWN OXYGEN. Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIG HTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE. Unusual Fire/Explosion Hazard:PRODUCT DECOMPOSES AT 180 C, RELEASING OXYGEN GAS; CONTAINER MAY RUPTURE ========= Accidental Release Measures =============== Spill Release Procedures: USE EXTREME CAUTION IN HANDLING SPILLED MATERIAL. CONTAMINATION WITH ORGANIC OR COMBUSTIBLE MATERIAL MAY CAUSE FIRE OR VIOLENT DECOMPOSITION. IF FIRE OR DECOMPOSITION OCCURS IN AREA OF SPILL, IMMEDIAT ELY DOUSE WITH PLENTY OF WATER. OTHERWISE, SWEEP UP ALL VISIBLE MATERIAL USING A CLEAN, DRY SHOVEL AND BROOM AND DISSOLVE MATERIAL IN WATER. ============ Handling and Storage =========================== Handling and Storage Precautions: STORE IN COOL, DRY AND WELL VENTILATED AREA. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP AWAY FROM HEAT, SPARKS, FLAMES, DIRECT SUNLIGHT AND OTHER SOURCES OF HEAT. Other Precautions: WASH THOROUGHLY AFTER EACH USE. KEEP AWAY FROM FIRE, ORGANI C MATERIALS.KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection: USE NIOSH APPROVED RESPIRATOR FOR DUST/MIST IF ABOVE PEL/TLV OR SCBA IN AN ENCLOSED AREA.

Ventilation: NONE REQUIRED UNLESS DUSTY CONDITIONS ARE ENCOUNTERED.

Protective Gloves: NATURAL OR SYNTHETIC RUBBER.

Eye Protection: SAFETY GLASSES/GOGGLES

Other Protective Equipment: PROTECTIVE CLOTHINGS. EYE-WASH FACILITIES, SAFETY SHOWER.

Work Hygienic Practices: AVOID

CONTACT WITH EYES AND SKIN;DO NOT BREATHE VAPORS/MIST/DUST.WASH THOROUGHLY AFTER EACH USE;DO NOT EAT,DRINK,SMOKE.
Supplemental Safety and Health HANDLE PRODUCT VERY CAREFULLY AND USE AS DIRECTED.
========== Physical/Chemical Properties ==========
HCC:D1 Boiling Pt:B.P. Text:180C DECOMP Decomp Temp:=180.C, 356.F pH:ALKALI Solubility in Water:217 G/L AT 27 C. Appearance and Odor:WHITE POWDER WITH SLIGHT CHLORINE ODOR
============ Stability and Reactivity Data = ================================
Stability Indicator/Materials to Avoid:NO ACIDS,COMBUSTBLES,ORGANICS OR REDUCING AGENTS Stability Condition to Avoid:HIGH TEMPERATURES,ABOVE 177C Hazardous Decomposition Products:OXYGEN AND CHLORINE GAS
========== Toxicological Information ===========
Toxicological Information:ONE OF THE MAJOR USES OF CALCIUM HYPOCHLORITE IS AS A SOURCE OF CHLORINE FOR WATER SANITIZATION IN DRINKING AND RECREATIONAL WATER. STUDIES HAVE BEEN CONDUCTED TO DETERMINE THE
LONG-TERM EFFECTS OF CH LORINATED DRINKING WATER. SEVEN GENERATIONS OF RATS WERE GIVEN 100 PPM CHLORINE IN THEIR DRINKING WATER. NO DIFFERENCE IN FEERTILITY, GROWTH, BLOOD PARAMETERS. OR SPECIFIC ORGAN TOXICITY WAS OBSERVED BETWEEN CONTROL AND EXPOSED ANIMALS.
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Ecological:HIGHLY TOXIC TO AQUATIC LIFE. 0.088 MG/L (BLUEGILL) 96-HOUR LC50.
======= Disposal Considerations ==========

CONTACT WITH EYES AND SKIN; DO NOT BREATHE

Waste Disposal Methods:SPILLED MATERIAL THAT HAS BEEN SWEPT UP AND DISSOLVED IN WATER SHOULD BE USED IMMEDIATELY IN THE NORMAL APPLICATION. IF NOT POSSIBLE, CAREFULLY NEUTRALIZE BY ADDING HYDROGEN PEROXIDE (ONE PINT OF 35% HYDROGEN PEROXIDE PER POUND OF CALCIUM HYPOCHLORITE) THEN DILUTE WITH PLENTY OF WATER AND FLUSH TO S EWER.

========= MSDS Transport Information ============
Transport Information:DOT: CALCIUM HYPOCHLORITE, HYDRATED, HAZARD CLASS 5. I (OXIDIZER), UN2880. PKG II.
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SARA Title III Information: NOT LISTED IN SARA 302 OR 313. FOR SARA SECTION 311,312: FIRE HAZRD.

Federal Regulatory Information: THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

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