

PPG INDUSTRIES INC -- PITTCLOR -- 6810-00-242-4770

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

Product ID:PITTCLOR

MSDS Date:06/16/1993

FSC:6810

NIIN:00-242-4770

MSDS Number: CHCBJ

=== Responsible Party ===

Company Name:PPG INDUSTRIES INC

Address:ONE PPG PLACE

City:PITTSBURGH

State:PA

ZIP:15272

Country:US

Info Phone Num:304-943-1300

Emergency Phone Num:304-943-1300

CAGE:93915

=== Contractor Identification

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Company Name:PPG INDUSTRIES INC CHEMICAL DIVISION

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:HYPOCHLOROUS ACID, CALCIUM SALT; (CALCIUM HYPOCHLORITE)
(CERCLA)

CAS:7778-54-3

RTECS #:NH3485000

OSHA PEL:0.5 PPM (CL)

ACGIH TLV:0.5 PPM; 1 STEL (CL)

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:SUPDAT: ABERRATIONS IN CHINESE HAMSTER FIBROBLAST

S. IN
WHOLE ANIMAL EXPERIMENT EXPOS RANGING FROM 20-160 MG/KG (ING 3)
RTECS #:9999999ZZ

Ingred Name:ING 2: PRDCED NO CMPD RELATED CHROMOSOMAL ABNORMS. MAJOR
USE OF CALCIUM HYPOCHLORITE IS SOURCE OF CHLORINE FOR (ING 4)
RTECS #:9999999ZZ

Ingred Name:ING 3: WATER SANITIZATION IN DRINKING & RECREATION. STUDIES
HAVE BEEN CONDUCTED TO DETERMINE LONG-TERM EFTS OF (ING 5)
RTECS #:9999999ZZ

Ingred Name:ING 4: CHLORINATED DRINKING WATER. SEVEN GENERATIONS OF
RATS WERE GIVEN 100PPM CHLO
RINE IN DRINKING WATER. NO (ING 6)
RTECS #:9999999ZZ

Ingred Name:ING 5: DIFFERENCE IN FERTILITY, GROWTH, BLOOD
PARAMETERS/SPECIFIC ORGAN TOX OBSERVED BETWEEN CTL & EXPOS
ANIMALS.(ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6:TWO SEPARATE ANIMAL STUDIES CONDUCTED BY DIFFERENT
GOVT AGENCIES DETERMD CHLORINATION OF MUNICIPAL DRINKING(ING 8)
RTECS #:9999999ZZ

Ingred Name:ING 7:WATER DID NOT RSLT IN TOX TO DEVELOPING MOUSE FETUS.
MINIMIZE RPTD ACUTE EXPOS WHEN HNDLG MATL ON LONG-TERM
BASIS.
RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC: NOT INDUCE VOMIT. TAKE IMMED TO HOSPITAL OR
MD. IF UNCON OR IN CONVULSIONS, TAKE IMMED TO (ING 10)
RTECS #:9999999ZZ

Ingred Name:ING 9: HOSPITAL. DO NOT ATTEMPT TO INDUCE VOMIT OR GIVE
ANYTHING BY MOUTH TO UNCON PERSON. NOTE TO MD: TREAT SYMP.
RTECS #:9999999ZZ

Ingred Name:SPILL PROC: & DISSOLVE MATL IN WATER. DISPOSE OF WATE MATL
AS OUTLINED IN SECTION ON WASTE DISPOSAL METHOD.
RTECS #:9999999ZZ

Ingred Name:WASTE DISP METH: PE

ROXIDE SOLN PER POUND OF CALCIUM

HYPOCHLORITE TO BE NEUT) THEN DILUTE NEUT MATL W/PLENTY OF (ING 13)
RTECS #:9999999ZZ

Inged Name:ING 12: WATER & FLUSH TO SEWER. NOTE:ONLY PROPERLY NEUT
MATL SHOULD BE FLUSHED TO SEWER. UNNEUT MATL CAN CAUSE (ING 14)
RTECS #:9999999ZZ

Inged Name:ING 13: ENVIRONMENTAL DAMAGE TO RECEIVING WATER OR CAN
INTERFERE W/TREATMENT PLANT OPERATION. FOR ON-SITE NEUT (ING 15)
RTECS #:9999999ZZ

Inged Name:ING 14: CAREFULLY & SLOWLY POUR APPROP QTY OF 35% HYDR
OGEN
PEROXIDE SOLN OVER ALL SPILLED MATL THEN FLUSH AREA (ING 16)
RTECS #:9999999ZZ

Inged Name:ING 15: W/PLENTY OF WATER. COMMENTS: CARE MUST BE TAKEN
WHEN USING OR DISPOSING OF CHEM MATLS &/OR THEIR CNTNRS (ING 17)
RTECS #:9999999ZZ

Inged Name:ING 16: TO PREVENT ENVIRONMENTAL CONTAM. IT IS YOUR DUTY TO
DISPOSE OF CHEM MATLS &/OR THEIR CNTNRS I/A/W CLEAN (ING 18)
RTECS #:9999999ZZ

Inged Name:ING 17:AIR ACT, CLEAN WATER ACT, RCRA, FIFRA, AS WELL AS
ANY OTHER RELEVANT FED, ST
ATE & LOCAL LAWS/REGS REGARDING DISP.
RTECS #:9999999ZZ

Inged Name:HNDLG/STOR: SPKS, OPEN FLAMES & LIGHTED TOBACCO. USE ONLY
CLEAN, DRY SCOOP MADE OF METAL/PLASTIC EACH TIME PROD (ING 20)
RTECS #:9999999ZZ

Inged Name:ING 19: TAKEN FROM CNTNR. DO NOT ADD PROD TO ANY DISPENSING
DEVICE CNTNG REMNANTS OF OTHER PRODS; MAY CAUSE (ING 21)
RTECS #:9999999ZZ

Inged Name:ING 20: VIOLENT RXN LEADING TO FIRE/EXPLO. ADD PROD ONLY TO
WATER. MAY CAUSE FIRE/EXPLO IF MIXED W/OTHER CHEMS. (ING 22

)
RTECS #:9999999ZZ

Ingred Name:ING 21:FIRE MAY RSLT IF CONTAM W/ACIDS/EASILY COMBUST MATL
(EG OIL, KEROSENE, GASOLINE, PAINT PRODS & MOST OTHER(ING 23)
RTECS #:9999999ZZ

Ingred Name:ING 22: ORG MATLS. WASH HANDS AFTER HNDLG. DO NOT REUSE
CNTNR; RESIDUAL IN EMPTY DRUM CAN REACT TO CAUSE FIRE. (ING 24)
RTECS #:9999999ZZ

Ingred Name:ING 23: THOROUGHLY FLUSH EMPTY CNTNR W/WATER; PLACE IN
TRASH TO DESTROY. DO NOT CONTAM WATER/FOOD/FEED BY STORAGE/DISP.
RTECS #:9999999ZZ

Ingred Name:E
YE PROT: & FULL LENGTH FACESHIELD .
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHAL: INHAL OF CALCIUM
HYPOCHLORITE DUST & DEPOSITION OF PARTICLES IN RESP TRACT CAN LEAD
TO IRRIT OF TISS & CAUSE VARIETY OF EFTS DEPENDENT ON CONC. INCL:
UPPER
RESP TRACT IRRIT, NASAL CONGES TION, COUGH, SORE THROAT,
LARYNGITIS & SHORTNESS OF BREATH. IN OPERATIONS WHERE THERE ARE
HIGH CONCS (EFTS OF OVEREXP)
Explanation of Carcinogenicity:NOT RELEVANT
Effects of Overexposure:HLTH HAZ:OF RESPIRABLE PARTICULATES, PULM EDEMA
(FLUID IN LUNG) MAY BE PRDCED. IF NOT TREATED IMMED, IT CAN BE LIFE
THREATENING. SINCE PROD IS IN GRANULAR FORM, PARTICLES OF RESP SIZE
NOT GENERALLY EN COUNTERED. EYE/SKIN:CORR TO EYES. CNTCTOF DUST
W/EYES, EV
EN MINUTE AMT FOR SHORT DURATION, CAN CAUSE SEV IRRIT
(SUPDAT)
Medical Cond Aggravated by Exposure:NONE KNOWN.

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

First Aid:INHAL:REMOVE TO FRESH AIR. IF NOT BRTHG, GIVE ARTF RESP, PREF
MOUTH-TO-MOUTH. IF BRTHG DFCLT, GIVE OXYG. CALL MD. SKIN:FLUSH
W/PLENTY OF WATER FOR AT LST 15 MIN WHILE REMOVING CONTAM CLTHG &
SHOES. IF IRRIT OCCURS, GET MED ATTN. EYES:FLUSHW/PLENTY OF WATER
FOR AT LST 15 MIN. GET IMMED M

ED ATTN. INGEST:IF CONSCIOUS, DRINK
LG QTYS OF WATER & ANY COMMON COOKING (VEGETABLE) OIL, IF AVAIL. DO
(ING 9)

===== Fire Fighting Measures =====

Flash Point:NONE

Extinguishing Media:WATER ONLY! SMOTHERING INEFFECTIVE - PRODUCT
SUPPLIES OWN OXYGEN.

Fire Fighting Procedures:USE NIOSH APPROVED SCBA AND FULL PROTECTIVE
EQUIPMENT .

Unusual Fire/Explosion Hazard:DECOMPOSES AT 160C RELEASING OXYGEN GAS;
CONTAINERS MAY RUPTURE.

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= Accidental Release Measures =====

Spill Release Procedures:USE EXTREME CAUTION IN HNDLG SPILLED MATL.
CONTAM W/ORG OR COMBUST MATL MAY CAUSE FIRE/VIOLENT DECOMP. IF
FIRE/DECOMP OCCURS IN SPILL AREA, IMMED DOUSE W/PLENTY OF WATER.
OTHERWISE, SWEEP UP ALL VISIB LE MATL USING CLEAN, DRY SHOVEL &
BROOM(ING 11)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DO N
OT GET IN EYES OR ON SKIN/CLTHG.

KEEP IN ORIGINAL CNTNR IN COOL, DRY PLACE. KEEP CNTNR CLSD WHEN NOT
IN USE. KEEP AWAY FROM HEAT SOURCES, (ING 19)

Other Precautions:KEEP OUT OF REACH OF CHILDREN. STRONG OXIDIZER - FIRE
MAY RESULT FROM CONTACT W/HEAT, ACIDS, ORGANIC OR COMBUSTIBLE
MATTER. MAY BE FATAL/HARMFUL IF SWALLOWED. MAY CAUSE CHEMICAL
BURNS. IRRITATING TO N OSE & THROAT - AVOID BREATHING DUST.

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

Respira

tory Protection:IF DUSTY CNDTNS ARE ENCOUNTERED, USE NIOSH
APPROVED RESPIRATOR WITH ACID GAS CARTRIDGE & DUST PREFILTER.
RESPIRATORY USE LIMITATIONS SPECIFIED BY NIOSH/MFR MUST BE
OBSERVED. RESPIRATORY PROTECTION PRO GRAMS MUST BE I/A/W 29 CFR
1910.134.

Ventilation:NONE, UNLESS DUSTY CONDITIONS ARE ENCOUNTERED.

Protective Gloves:NATURAL OR SYNTHETIC RUBBER.

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGS (ING 25)

Other Protective Equipment:ANSI APPRVD EYE WASH & DELUGE SHOWER .

BOOTS, APRONS OR CHEM SUITS WHEN NECESSARY TO PREVENT SKIN CONTACT.

Work Hygienic Practices:PERSONAL PROTECTIVE CLOTHING AND USE OF EQUIPMENT MUST BE I/A/W 29 CFR 1910.132 AND 29 CFR 1910.133.

Supplemental Safety and Health

BP: DECOMPOSES @ 356F,180C. PH: ALKALINE. EFTS OF OVEREXP: & EVEN BLINDNESS. SKIN CNTCT MAY CAUSE SEV IRRIT, BURNS OR TISS DESTRUCTION. INGEST: IF SWALLOWED, CAUSES SEV BURNS TO DIGEST TRACT & CAN BE FATAL. CHRONIC: CALCIUM HYPOCHLORITE PRDCED POS RESPONSES IN IN-VITRO ASSAYS USING BACTERIAL SYS & CHROMOSOMAL (ING 2)

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

Boiling Pt:B.P. Text:SUPDAT

pH:SUPDAT

Solubility in Water:217 G/L @ 27C

Appearance and Odor:WHITE POWDER WITH SLIGHT CHLORINE ODOR.

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

Stability Indicator/Materials to Avoid:NO

ACIDS, COMBUSTIBLE MATERIALS, ORGANICS, REDUCING AGENTS.

Stability Condition to Avoid:CONTAMINATION OR EXCESSIVE HEAT ABOVE

177C.

Hazardous Decomposition Products:ACIDS OR AMMONIA CONTAM WILL RELS TOXIC GASES. EXCESSIVE HEAT WILL CAUSE DECOMP RSLTG IN RELS OF OXYGEN & CHLORINE GAS.

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

Waste Disposal Methods:SPILLED MATL THAT IS SWEEPED UP & DISSOLVED IN WATER SHOULD BE USED IMMED IN NORM APPLICATN FOR WHICH CALCIUM HYPOCHLORITE IS BEING CONSUMED. IF NOT POSS, CAREFULLY NEUT DISSOLVED MATL BY ADDING HYDROGEN PEROXIDE (ONE PIN

T OF 35%

HYDROGEN (ING 12)

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