

OLIN CORPORATION -- CPE00251# CHLORINE -- 6830-00-169-0783

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

Product ID:CPE00251# CHLORINE

MSDS Date:09/04/1997

FSC:6830

NIIN:00-169-0783

MSDS Number: BPHXZ

=== Responsible Party ===

Company Name:OLIN CORPORATION

Address:501 MERRITT 7

Box:4500

City:NORWALK (FORMALLY IN STAMFORD,CT)

State:CT

ZIP:06856-4500

Country:US

Info Phone Num:203-750-3000/203-750-3543

Emergenc

y Phone Num:800-654-6911/203-356-2000

Preparer's Name:OLIN MSDS CNTRL GROUP

CAGE:99530

=== Contractor Identification ===

Company Name:OLIN CORPORATION

Address:501 MERRITT 7

Box:4500

City:NORWALK

State:CT

ZIP:06856-4500

Country:US

Phone:203-750-3000/800-511-MSDS

CAGE:99530

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

Ingred Name:CHLORINE (SARA 302/313) (CERCLA)

CAS:7782-50-5

RTECS #:FO2100000

Fraction by Wt: 98-100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C 1 PPM

ACGI

H TLV:0.5 PPM/1 STEL; 9596

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

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

LD50 LC50 Mixture:ORAL LD50:NOT AVAIL-GAS @ROOM TEMPERATURE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:HARMFUL IF INHAL.CAUSES EYE/SKIN/RESP

TRACT BURNS.CAN CAUSE LUNG DMG.ODOR THRESHOLD:APPROX

1.7MG/M3(0.3PPM).IDLH=10PPM.EYE:RED,PAIN,BLUR VISION,TEAR.LIQ C

AUSE

BURNS W/VISION IMPAIR,CORNEAL DMG.SKIN:IR RIT,RED,SWELL,SCAB

FORM.LIQ BURNS,PROL CONTACT CAUSES DERMIS DESTRUCTION W/IMPAIR

SKIN.INGEST:IRRIT/BURNS GI(AGGRAV MED)

Explanation of Carcinogenicity:PER MSDS:NOT KNOWN OR REPORTED TO BE

CARC BY ANY REF SOURCE INCLUDING IARC/OSHA/NTP/EPA.

Effects of Overexposure:ACUTE:INHAL IRRIT NOSE/MOUTH/THROAT/LUNGS.MAY

CAUSE INFLAMM TO RESP TRACT W/PRODUCTION OF LUNG EDEMA-SHORTNESS OF

BREATH,WHEEZ,CHOKE,CHEST PAIN,IMPAIR LUNG FUNCTIO

N.HI LEVELS CORRO

TO RESP TRACT,LUNG DMG.CHRONIC:REP INHAL EXPO MAY CAUSE IMPAIRMENT

OF LUNG FUNCTION & PERM LUNG DMG.MAY CONTRIBUTE TO DEVELOPMENT OF

BRONCHITIS.

Medical Cond Aggravated by Exposure:ASTHMA AND RESPIRATORY AND

CARDIOVASCULAR DISEASE. HEALTH:TRACT,NAUSEA,VOMIT,DIARR,ABD

PAIN,BLEEDING,TISSUE ULCERATION.

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

First Aid:EYE:IMMED FLUSH W/LG AMTS OF H2O @LEAST 15MINS,LIT

UPPER/LOWER EYELIDS.CALL DR @ONCE.

SKIN:IMMED FLUSH W/H2O @LEAST

15MINS.CALL DR.CLOTH CONTACT PROD SHOULD BE REMOVED

IMMED.INGEST:IMMED DRINK LG QUANT OF H2O.DONT INDUCE VOMIT.CALL DR

@ONCE.DONT GIVE ANYTHING BY MOUTH IF

UNCONSC/CONVULS.INHAL:NAUSEA,HEAD,DIZZ STOP WORK IMMEDIATE,MOVE TO FRESH

AIR TIL SYMPT DISAPPEAR.BREATH DIFF GIVE OXY.CALL DR.(SUPPLEMENT)

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

Flash Point:NA

Autoignition Temp:Autoignition Temp Text:NP

Lower Limits:NA

Upper Limits:NA

E

Extinguishing Media:USE EXTINGUISHING MEDIA COMPATIBLE TO SURROUNDING MATERIALS.

Fire Fighting Procedures:USE WATER TO COOL CNTNR EXPO TO FIRE HOWEVER DIRECT SPRAY BETWEENFIRE/CNTNR.DONT SPRAY DIRECTLY ON CNTNR UNLESS ABSOLUTELY NECESSARY.H2O REACTIVE MATL;DONT(SUP)

Unusual Fire/Explosion Hazard:OXIDIZER.WATER REACTIVE.CORROSIVE.

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

Spill Release Procedures:ALL TRANSP ACCIDENT:800-424-9300 CHEMTREC.SUBJ TO RQ W/RES

PECT TO CL2.REF:40CFR302.4.HAZ CONC IN AIR MAY BE FOUND IN SPILL AREA/IMMED DOWNWIND.DONT PUT H2O ON PROD-GAS EVOLU INCR.EXPLO HAZ IF CONTACT W/INCOPAT MATL.REMOVE ALL IGN SOURCES.(DISPO)

Neutralizing Agent:MATL MAY BE NEUTRALIZED FOR DISPO;YOUR REQUESTED TO CALL OCEAN 800-OLIN-911.

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

Handling and Storage Precautions:DONT TAKE INTERNALLY.AVOID CONTACT W/SKIN/EYE/CLOTHING.UPON CONTACT W/SKIN/EYES WASH OFF W/W ATER.DONT

BREATHE GAS/VAP.STORE IN COOL DRY WELL VENTI PLC

Other Precautions:DONT STORE @TEMPS ABOVE 59C/140F.SHELF LIFE LIMITATIONS:INDEF.TITNAIUM WILL RX VIGOROUSLY RESULTING IN SPONT IGN WHEN CONTACT BY DRY CHLORINE.COMBUST WILL BE SUPPORTED IN CARBON STEEL SYS/EQPMT W/CHLR INE ENVIRO @TEMPS >340F.PROPERLY(SUPPLE)

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

Respiratory Protection:IF AIR CONCENTRATIONS ABOVE TLV POSSIBLE WEAR NIOSH/MSHA APPROVE

D RESPIRATOR.WEAR NIOSH/MSHA APPROVED FULL-FACE RESPIRATOR EQUIPPED W/CHEM CARTRIDGES FOR CHLORINE GAS.

Ventilation:USE LOCAL EXHAUST VENTILATION TO MAINTAIN LEVELS TO BELOW TLV.

Protective Gloves:WEAR GLOVES-NEOPRENE,BUTYL RUBBER

Eye Protection:FACE SHIELD W/SAF GLASSES.

Other Protective Equipment:WEAR BOOTS,APRON-NEOPRENE.FULL IMPERM SUIT RECOMMENDED IF EXPO POSSIBLE TO LG PORTION OF BODY.EMER EYEWASH,SAF SHOWER

Work Hygienic Practices:LAUNDER CONTAM CLOTH BEF REUSE.PROTECTION

CONCERNS MUST ADDRESS POT OF PHYS CHARACT OF PROD-COMPRESSED GAS,CORR,POISON.

Supplemental Safety and Health

FIRE/EXPLO:SPRAY W/H2O.CONTACT W/RX METLAS(AL)MAY RESULT IN GENERATION OF FLAMM H2 GAS. INCOMPAT:TITANIUM,ZN,TIN.ALKALIES,RED AGENTS,ORG MATLS. OTHER PRECAUT:PURGE SYSTEMS/EPQMT PRIOR TO CONDUCTING HO T WORK. 1STAID:INHAL VAP UNCONSC,MOVE IMMED TO FRESH AIR,CALL DR IMMED.STOP BREATH-ART RESP.ADE VENTI/RESP BEF WORKING.

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

HCC:G7

Boiling Pt:B.P. Text:-29F,-34C

Melt/Freeze Pt:M.P/F.P Text:149F,65C

Decomp Temp:Decomp Text:NONE

Vapor Pres:114PSI

Vapor Density:2.5

Spec Gravity:NA

pH:NA

Viscosity:NP

Evaporation Rate & Reference:HEAT OF VAP 123.67BTU/LB

Solubility in Water:MISCIBLE

Appearance and Odor:GREENISH LIQUID OR GAS, PRODUCT IS COMPRESSED GAS, ACRID ODOR

Percent Volatiles by Volume:100

Corrosion Rate:NP

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

Stability

Indicator/Materials to Avoid:YES

NOTICE-SHOULDNT BE REPKG EXCEPT BY QUALIFIED/TRAIN

PERSONNEL.ALKALIS,REDUCING AGENTS,ORG MATLS.RXS VIGOROUSLY W/(SUPPLE)

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:HYDROCHLORIC ACID, HYPOCHLOROUS ACID

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

Waste Disposal Methods:SPILL:SURPRES VAP W/H2OFOG.CONTAIN

FOG-NEU/TREAT.CL2 SINK IN H2O,BUBBLE TO FORM HYPOCHLOROUS ACID-SELF

DECOMPO.DIVERT TO HOLD AREA-TREAT/NEU.LAND-DIKE,COVER
W/FOAM.NEU.WEAR PPE. WASTE-EPA D003,D001.SU BJ TO 40CFR268.CNTRL
EVAPO WARRANT.TPQ:100LBS.SARA

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