

ASHLAND CHEMICAL CO. DIVISION OF ASHLAND OIL INC. -- TETRACHLOROETHYLENE --  
6810-01-099-3435

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

Product ID:TETRACHLOROETHYLENE

MSDS Date:05/31/1989

FSC:6810

NIIN:01-099-3435

MSDS Number: BGLSS

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL CO. DIVISION OF ASHLAND OIL INC.

Box:2219

City:COLUMBUS

State:OH

ZIP:43216

Country:US

Info Phone Num:614-790-3333 OR 80

0-ASH-LAND

Emergency Phone Num:606-324-1133 OR 800-274-5263

CAGE:5A188

=== Contractor Identification ===

Company Name:ASHLAND CHEMICAL CO

Address:5200 PAUL BLAZEL MEMORIAL PARKWAY

Box:City:DUBLIN

State:OH

ZIP:43017

Country:US

Phone:614-889-4505

CAGE:5A188

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

Ingred Name:PERCHLOROETHYLENE (TETRACHLOROETHYLENE) (SARA III) \*

CAS:127-18-4

RTECS #:KX3850000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:25 PPM \*

ACGIH

TLV:50 PPM/200 STEL;9192

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

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===== Hazards Identification =====  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:ACUTE-EYE:CAN CAUSE SEVERE IRRITATION,  
REDNESS,TEARING,BLURRED VISION.SKIN:PROLONGED/REPEATED CONTACT CAN  
CAUSE MODERATE IRRITATION,DEFATTING,DERMATITIS.EXCESSIVE  
INHALATION:CAN CAUSE IRRITATION,CNS E FFECT

S INCLUDING

DIZZINESS,HEADACHE,FATIGUE, UNCONSCIOUSNESS/DEATH.INGESTION:CAN  
CAUSE GI IRRITATION,VOMITING,DIARRHEA.

Explanation of Carcinogenicity:IDENTIFIED AS A CARCINOGEN BY IARC,NTP  
(PER MSDS).

Effects of Overexposure:CHRONIC OVEREXPOSURE:MAY CAUSE LIVER  
ABNORMALITIES, KIDNEY DAMAGE, SPLEEN DAMAGE, BRAIN DAMAGE.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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===== First Aid Measures =====  
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First Aid:GET MEDICAL ATTENT

ION IF NEEDED.EYE:FLUSH W/ WATER 15

MIN,HOLD LIDS OPEN.SKIN:WASH WITH SOAP & WATER.INHALED:REMOVE TO  
FRESH AIR.GIVE CPR/OXYGEN IF NECESSARY.KEEP PERSON WARM &  
QUIET.DON'T GIVE STIMUL ANTS.EPINEPHRINE/EPHEDRINE MAY ADVERSELY  
AFFECT THE HEART WITH FATAL RESULTS.IF SWALLOWED:DON'T INDUCE  
VOMITING.IF CONSCIOUS,IMMEDIATELY DRINK TWO GLASSES OF WATER.

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===== Fire Fighting Measures =====  
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Flash Point:NOT RELEVANT

Extinguishing Media:NON FLAMMABLE.US

E WATER FOG,CARBON DIOXIDE/DRY

CHEMICAL FOR SURROUNDING FIRE.USE WATER TO COOL FIRE-EXPOSED  
CONTAINERS.

Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS WITH A  
FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN  
FIGHTING FIRES.

Unusual Fire/Explosion Hazard:NEVER USE WELDING OR CUTTING TORCH ON OR  
NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN  
IGNITE EXPLOSIVELY.

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===== Accidental Release Measures =====  
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Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS.ABSORB SMALL SPILLS ON PAPER,VERMICULITE,.STOP LEAK FOR LARGE SPILLS.DIKE AREA.PUMP LIQUID TO SALVAGE TANK.TAKE UP THE REST BY SAND/CLAY AND SHOVEL TO A CONTAINER.

Neutralizing Agent:NONE GIVEN

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

Handling and Storage Precautions:STORE CONTAINERS TIGHTLY CLOSED IN A COOL, WELL VENTILATED PLACE,AWAY FROM HEAT & FLAMES.EMPTY CONTAINER MAY CONTAIN HAZARDOU S RESIDUES.

Other Precautions:OBSERVE ALL PRECAUTIONS GIVEN IN THE DATA SHEET.

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

Respiratory Protection:IF WORKPLACE EXPOSURE LIMIT OF PRODUCT EXCEEDS THE TLV, A NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION.

Protective Gloves:POLYVINYL ALCOHOL

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYEWASH STATION AND SAFETY SHOWER.

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PERVIOUS CLOTHING AND BOOTS

Work Hygienic Practices:DO NOT INHALE VAPORS. WASH HANDS BEFORE EATING AND DRINKING.

Supplemental Safety and Health

NONE

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

HCC:T4

Boiling Pt:B.P. Text:250F,121C

Vapor Pres:13

Vapor Density:6.7

Spec Gravity:1.618 - 1.622

Evaporation Rate & Reference:2.80 (N-BUTYL ACETATE=1)

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

Percent Volatiles by Volume:100

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===== Stability and Rea

ctivity Data =====

Stability Indicator/Materials to Avoid: YES

NOT RELEVANT

Stability Condition to Avoid: HIGH TEMPERATURES AND FLAMES

Hazardous Decomposition Products: MAY FORM TOXIC MATERIALS: CARBON DIOXIDE AND CARBON MONOXIDE, HYDROGEN CHLORIDE, PHOSGENE, VARIOUS HYDROCARBONS, ETC..

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

Waste Disposal Methods: CONSULT FEDERAL, STATE AND LOCAL AUTHORITIES FOR PROPER DISPOSAL PROCEDURES.

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