

SIGMA CHEMICAL CO -- CHLOROFORM,ACS GRADE -- 6810-00-973-6472

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

Product ID:CHLOROFORM,ACS GRADE

MSDS Date:12/04/1989

FSC:6810

NIIN:00-973-6472

MSDS Number: BGSQV

=== Responsible Party ===

Company Name:SIGMA CHEMICAL CO

Address:3050 SPRUCE ST

City:ST LOUIS

State:MO

ZIP:63103

Country:US

Info Phone Num:800-325-8070

Emergency Phone Num:314-771-5765

CAGE:21076

=== Contr

actor Identification ===

Company Name:SIGMA CHEMICAL COMPANY

Address:3050 SPRUCE ST

Box:14508

City:ST LOUIS

State:MO

ZIP:63178

Country:US

Phone:314-771-5765

CAGE:21076

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

Ingred Name:CHLOROFORM (SARA III)

CAS:67-66-3

RTECS #:FS9100000

Fraction by Wt: >99%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C 50 PPM

ACGIH TLV:10 PPM; A2; 9394

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

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

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LD50 LC50 Mixture:LD50 ORAL RAT=908MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:SEE SIGNS AND SYMPTOMS OF OVEREXPOSURE
FOR ACUTE EFFECTS; CHRONIC EFFECTS: DAMAGE TO LIVER, KIDNEY,
HEARING.
Explanation of Carcinogenicity:CHLOROFORM IS A SUSPECTED HUMAN
CARCINOGEN.
Effects of Overexposure:EYE:IRRITATION,SKIN:IRRITATION,INHALATION:
NAUSEA,IRRITATION TO MUCOUS MEMBR
ANES & UPPER RESPIRATORY TRACT.
Medical Cond Aggravated by Exposure:ALCOHOL CONSUMPTION INCREASES TOXIC
EFFECTS.

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

First Aid:EYES:FLUSH LARGE AMOUNTS OF WATER;SKIN:FLUSH WITH PLENTY OF
WATER WHILE REMOVING CLOTH & SHOES;INHALATION:REMOVE TO FRESH
AIR.GIVE CPR/OXYGEN IF NEEDED.SEE DOCTOR.

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

Flash Point:NONE
Extinguishing Media:USE WATER FOG, CARBON
DIOXIDE, FOAM, OR DRY
CHEMICAL.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE
PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS, SUCH AS HYDROGEN
GAS, PHOSGENE GAS, CARBON MONO &DIOXIDES.

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

Spill Release Procedures:EVACUATE PERSONNEL.WEAR SCBA & PERSONAL
PROTECTIVE CLOTHING & BOOTS.ABSORB IN INERT MATERIAL &
CONTAINERIZE.FLUSH AREA WITH LARGE AMOUNT OF WATER.

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

Handling and Storage Precautions:USE IN CHEMICAL FUME HOOD.DO NOT
BREATHE VAPOR.AVOID ALL CONTACT.KEEP TIGHTLY CLOSED.PROTECT FROM
LIGHT.STORE IN COOL,DRY PLACE.

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

Respiratory Protection:NIOSH/MS

HA APPROVED RESPIRATORY DEVICE I/A/W

EXPOSURE OF CONCERN.

Ventilation:USE CHEMICAL FUME HOOD WITH EXHAUST VENTILATION.

Protective Gloves:RUBBER

Eye Protection:SPLASH GOGGLES

Other Protective Equipment:EYE BATH,SAFETY SHOWER,APRON.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING-LAUNDER

CONTAMINATED CLOTHING BEFORE REUSE

Supplemental Safety and Health

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

HCC:T4

Boiling Pt:B.P. Text:141F,61C

Melt/Freeze Pt:M.P/F.P T

ext:-81F,-63C

Vapor Pres:160

Vapor Density:4.1

Spec Gravity:1.492

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS LIQUID WIYH SWEET ODOR.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, BASES AND ALUMINUM.

Stability Condition to Avoid:EXPOSURE TO LIGHT, HIGH TEMPERATURES,

SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:HCL,PHOSGENE,CO,CO2.

===== Disposal Considerations

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Waste Disposal Methods:IGNITE IN PRESENCE OF SODIUM CARBINATE & CALCIUM HYDROXIDE.MATERIAL SHOULD BE MIXED WITH ABSORBENT & THEN WITH DRY CAUSTICS, WRAPPED IN PAPER & BURNED IN A CHEMICAL INCINERATOR WITH AFTERBURNER & SCRUBBER,OBSERVE FEDERAL,STATE & LOCAL LAWS.

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