

SIGMA CHEMICAL COMPANY -- MERCURIC CHLORIDE;PRODUCT #M1136 -- 6505-00-128-5200  
===== Product Identification =====

Product ID:MERCURIC CHLORIDE;PRODUCT #M1136

MSDS Date:01/09/1990

FSC:6505

NIIN:00-128-5200

MSDS Number: BHQCG

=== Responsible Party ===

Company Name:SIGMA CHEMICAL COMPANY

Address:3500 DEKALB STREET

Box:14508

City:ST. LOUIS

State:MO

ZIP:63178

Country:US

Info Phone Num:800-325-3010 OR 3

14-771-5750

Emergency Phone Num:314-771-5750 OR 800-325-3010

CAGE:21076

=== Contractor 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:MERCURIC CHLORIDE (SARA III)

CAS:7487-94-7

RTECS #:OV9100000

OSHA PEL:0.1 MG HG/M3;SKIN;C

ACGIH TLV:0.1 MG HG/M3; 9192

===== Hazards Identification

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LD50 LC50 Mixture:LD50 (ORAL RAT) IS 1 MG/KG

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

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

Health Hazards Acute and Chronic:ACUTE:MAY BE FATAL IF INHALED,INGESTED OR ABSORBED THROUGH SKIN.IRRITATION OF EYES,SKIN,MUCOUS MEMBRANES,RESPIRATORY AND G.I.TRACT;INHALATION:DYSPNEA, COUGH, FEVER, NAUSEA & VOMITING, DIARRHEA, STOMATITIS.CHRONIC:NERVES AND KIDNEYS DAMAGE.

Effects of Overexposure:SEE HEALTH HAZARDS DATA

Medical Conditions Aggravated by Exposure:PERSONS WITH A HISTORY OF

ALCOHOLISM, CHRONIC KIDNEY DISEASE OR KNOWN ALLERGY TO THIS COMPOUND MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR/OXYGEN. GET MEDICAL ATTENTION. EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH PLENTY OF SOAP & WATER. INGESTION: GET IMMEDIATE MEDICAL ATTENTION. A 5% SOLUTION OF SODIUM FORMALDEHYDE SULFOXYLATE MAY BE USED TO INDUCE VOMITING.

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

Flash Point:NONE

Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.

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:TOXIC VAPORS/MIST UNDER FIRE.FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:SMALL SPILL: PICK UP WITH VACUUM EQUIPMENT SPECIFICALLY DESIGNED FOR MERCURY COMPOUNDS . LARGE SPILL: EVACUATE AND VENTILATE AREA. IF POSSIBLE, STOP LEAK. DIKE TO RETAIN. VACUUM UP AND

COLLECTED FOR PROPER DISPOSAL.

Neutralizing Agent:NONE

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Handling and Storage  
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Handling and Storage Precautions:STORE IN SEALED UNBREAKABLE POLYETHYLENE CONTAINERS IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions:AVOID CONTACT WITH EYES AND SKIN.DO NOT BREATHE VAPOR/MIST.DO NOT EAT,DRINK OR SMOKE IN WORK AREA.WASH THOROUGHLY AFTER EACH USE.

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Exposure Controls/Personal Protection  
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Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED RESPIRATORS AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR DECISION LOGIC-PUBLICATION NUMBER 87.108.

Ventilation:PROVIDE SUFFICIENT GENERAL/LOCAL EXHAUST VENTILATION IN PATTERN/VOLUME TO CONTROL INHALATION EXPOSURES BELOW OSHA'S PEL.

Protective Gloves:RUBBER

Eye Protection:CHEMICAL SAFETY GOGGLES

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

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

DO NOT GET ON SKIN, IN EYES OR ON CLOTHING. DO NOT BREATHE VAPORS.

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Physical/Chemical Properties  
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HCC:T2

Melt/Freeze Pt:M.P/F.P Text:531F,277C

Vapor Pres:1.3 MM

Spec Gravity:5.44

Solubility in Water:SOLUBLE

Appearance and Odor:WHITE CRYSTALLINE POWDERED

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS AND STRONG BASES

Stability Condition to Avoid:EXPOSURE TO LIGHT

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS INCLUDE TOXIC MERCURY VAPORS AND MERCURY OXIDE OR HCL .

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Disposal Considerations  
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Waste Disposal Methods:CONSULT LOCAL AUTHORITIES.DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL,

## STATE AND FEDERAL AUTHORITIES.

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