

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

=====

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

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

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.

=====
Exposure Control
Is/Personal Protection
=====

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

O

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.

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

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

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

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 .

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

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

STATE AND FEDERAL AUTHORITIES.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.