

MERCURY REFINING CO, INC -- METALLIC MERCURY (IN GLASS THERMOMETERS) --  
6685-00-242-2183

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

Product ID:METALLIC MERCURY (IN GLASS THERMOMETERS)

MSDS Date:06/03/1996

FSC:6685

NIIN:00-242-2183

Status Code:A

MSDS Number: CJFNZ

=== Responsible Party ===

Company Name:MERCURY REFINING CO, INC

Address:26 RAILROAD AVE

City:ALBANY

State:NY

ZIP:12205

Country:US

Info Phone Num:518-785-1703

Emergency Phone Num:800-255-3924

CAGE:0SDN9

=== Co

ntractor Identification ===

Company Name:CONNECTICUT VALLEY INDUSTRIES INC

Address:8 CENTER ROAD

Box:City:OLD STAYBROOK

State:CT

ZIP:06475

Country:US

Phone:860-388-0822/FAX: 860-388-1651

Contract Num:SP0440-99-M-L401

CAGE:55560

Company Name:MERCURY REFINING CO, INC

Address:26 RAILROAD AVE

Box:00000

City:ALBANY

State:NY

ZIP:12205

Country:US

Phone:518-459-0820

CAGE:0SDN9

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

Ingred Name:MERCURY

CAS:7439-97-6

RTECS #:OV4550000

= Wt:

100.  
OSHA PEL:see Table Z-2  
ACGIH TLV:0.025 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION OF HIGH CONCENTRATIONS OF  
MERCURY VAPOR CAUSES IMMEDIATE SYSTEMIC EFFECTS, BRONCHITIS,  
PULMONARY EDEMA, PNEUMOTHORAX. SKIN CONTACT MAY  
CAUSE IRRITATION,  
SENSITIZATION DERMATITIS. EYE CONTACT MAY CAUSE IRRITATION.  
INGESTION NORMALLY DOES NOT CAUSE PROBLEMS, HOWEVER, IF INTERNAL  
SORES EXIST, THESE MAY ALLOW MERCURY TO ACCUMULATE WITH SERIOUS OR  
FATAL RESULTS. CHRONIC: INHALATION MAY CAUSE MERCURIALISM. SKIN  
EXPOSURE MAY CAUSE IRRITATION OR SENSITIZATION DERMATITIS. EYE  
EXPOSURE MAY LEAD TO MERCURY DEPOSITS IN THE EYE LENS CAUSING  
VISUAL DISTURBANCES.  
Explanation of Carcinogenicity:MERCURY HAS NOT BEEN  
IDENTIFIED AS A  
SUSPECTED CARCINOGEN BY NTP, IARC, OR OSHA.  
Effects of Overexposure:INHALED-DYSPNEA, COUGH, FEVER, NAUSEA,  
VOMITING, DIARRHEA, STOMATITIS, SALIVATION, METALLIC TASTE,  
DIZZINESS, CLUMSINESS, SLURRED SPEECH, HEADACHE, ALBUMENURIA.  
SKIN-REDNESS, IRRITATION, SENSITIZATION DERMATITIS, PSYCHIC  
DISTURBANCES, PERIPHERAL NEUROPATHY, KIDNEY DAMAGE.  
EYES-IRRITATION, VISUAL DISTURBANCES.  
Medical Condition Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

=====

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

First Aid:INHALED-REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF  
BREATHING STOPPED. GET IMMEDIATE MEDICAL ATTENTION. SKIN-REMOVE  
CONTAMINATED CLOTHES. WASH WITH SOAP & WATER UNTIL NO EVIDENCE OF  
SUBSTANCE REMAINS (15-20 MINUTES). INGESTED-IF CONSCIOUS & NOT  
CONVULSING, GIVE 2-4 GLASSES WATER & INDUCE VOMITING. KEEP WARM &  
QUIET. GET MEDICAL ATTENTION. EYES-FLUSH WITH WATER, LIFT LIDS,  
UNTIL NO EVIDENCE

OF SUBSTANCE REMAINS (15-20 MINUTES).

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

Extinguishing Media:SMALL FIRE: DRY CHEMICAL, CARBON DIOXIDE (CO2), HALON, WATER SPRAY OR FOAM. LARGE FIRE: WATER SPRAY, FOG OR FOAM  
Fire Fighting Procedures:MOVE CONTAINERS FROM AREA IF POSSIBLE. COOL CONTAINERS EXPOSED TO FLAMES WITH WATER FROM THE SIDE UNTIL FIRE IS OUT. STAY AWAY FROM STORAGE TANK ENDS; STAY UPWIND  
Unusual Fire/Explosion Hazard:NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

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

Spill Release Procedures:ISOLATE AREA OF LEAK OR SPILL. WEARING PROTECTIVE CLOTHING ATTEMPT TO STOP LEAK. SMALL SPILL: TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL & PLACE INTO CONTAINERS FOR LATER RECLAMATION OR DISPOSAL. L ARGE SPILL: DIKE FAR AHEAD OF SPILL FORLATER RECLAMATION OR DISPOSAL. KEEP UNECESSARY PEOPLE AWAY. ISOLATE & DENY ENTRY.  
Neutralizing Agent:NONE SPECIFIE D BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE MATERIALS, IN PLASTIC, GLASS OR CARBON-STEEL CONTAINERS WITH TIGHT-FITTING SEALS. STORE IN AN ISOLATED, COOL, WELL-VENTILATED AREA.  
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:RESPIRATORY PROTECTION FROM MERCURY VAPOR REQUIRED. USE NI OSH/MSHA-APPROVED RESPIRATOR. 0.5 MG/M3 OR LESS CAN USE CHEMICAL CARTRIDGE RESPIRATOR. >0.5 MG/M3 MERCURY VAPOR REQUIRES AN AIR-SUPPLIED RESPI RATOR WITH FULL FACE-PIECE OR SCBA.  
Ventilation:PROVIDE LOCAL EXHAUST, PROCESS ENCLOSURE VENTILATION OR GENERAL DILUTION TO MEET PERMISSIBLE EXPOSURE LIMITS.  
Protective Gloves:USE APPROPRIATE GLOVES TO PREVENT SKIN CONTACT.  
Eye Protection:CHEMICAL SAFETY GOGGLES AND FULL FACE SHIELD.  
Other Protective Equipment:APPROPRIATE IMPERVIOUS CLOTHING A

ND

EQUIPMENT TO PREVENT SKIN CONTACT.

Work Hygienic Practices: MAINTAIN EYE WASH AND QUICK DRENCH FACILITY IN  
WORK AREA. NO SMOKING, EATING OR DRINKING.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:Z2

Boiling Pt: =356.7C, 674.F

Melt/Freeze Pt: =-30.C, -22.F

Vapor Pres: 0.002 MM HG @25C

Vapor Density: 7.0

Spec Gravity: 13.5930

Solubility in Water: INSOLUBLE

Appearance and Odor: ODORLESS, SILVERY LIQUID WITH  
A METALLIC LUSTER.

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

Stability Indicator/Materials to Avoid: YES

ACETYLENE COMPOUNDS, ALUMINUM, AMINES, AMMONIA, BORON, BROMINE, METHYL AZIDE  
METHYL SILANE, OXIDANTS, LITHIUM, SODIUM, POTASSIUM, RUBIDIUM.  
OXALIC ACID, SODIUM CARBIDE, TETRACARBONYLNICKEL, NITROMETHANE,  
SILVER PERCHLORATE, COPPER

Stability Condition to Avoid: ELEVATED TEMPERATURES AND OPEN FLAMES.

Hazardous Decomposition Products: TOXIC VAPORS.

=====

===== Toxicological Information =====

Toxicological Information: NONE SPECIFIED BY MANUFACTURER.

===== Ecological Information =====

Ecological: NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods: SCRAP MERCURY CAN BE RECLAIMED. DISPOSAL MUST BE  
IN ACCORDANCE WITH 20 CFR 262. EPA HAZARDOUS WASTE CODE U151.

===== MSDS Transport Information =====

===

Transport Information:GUIDE 60. RQ MERCURY, 8, UN2809, PGIII

===== Regulatory Information =====

SARA Title III Information:NONE SPECIFIED BY MANUFACTURER.  
Federal Regulatory Information:NONE SPECIFIED BY MANUFACTURER.  
State Regulatory Information:NONE SPECIFIED BY MANUFACTURER.

===== Other Information =====

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.