

MERCURY REFINING CO, INC -- METALLIC MERCURY -- 6685-00-508-1056

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

Product ID:METALLIC MERCURY

MSDS Date:05/07/1991

FSC:6685

NIIN:00-508-1056

Status Code:A

MSDS Number: CLJRZ

=== 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

=== Contractor Identification ===

Company Name:HASS INSTRUMENT CORP

Address:6711 OLD BRANCH AVE

Box:City:CAMP SPRINGS

State:MD

ZIP:20748-6903

Country:US

Contract Num:F4160881M6264

CAGE:95896

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:METALLIC MERCURY

CAS:7439-97-6

RTECS #:OV4550000

Other REC Limits:0.05

MG/M3 10 HR
OSHA PEL:0.05 MG/M3
ACGIH TLV:0.05 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:YES

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

Health Hazards Acute and Chronic:INHALATION: ACUTE: HIGH CONCENTRATIONS OF MERCURY VAPOR CAUSES DYSPNEA, COUGH, FEVER, NAUSEA, VOMITING, DIARRHEA, STOMATITIS, SALIVATION AND M

ETALLIC TASTE. SYMPTOMS MAY

PROGRESS TO NECROTIZING BRONC HIOLITIS, PNEUMONITIS, PULMONARY EDEMA AND PNEUMOTHORAX INTOXICATION. CHRONIC: CAUSES MERCURIALISM. SKIN CONTACT:ACUTE: MAY CAUSE REDNESS AND IRRITATION.

SENSITIZATION DERMATITIS MAY OCCUR IN PREVIO USLY EXPOSED WORKERS. SUBSTANCE MAY BE ABSORBED THROUGH THE SKIN CAUSING ANURIA. CHRONIC: MAY CAUSE IRRITATION AND SENSITIZATION DERMATITIS. MAY RESULT IN PSYCHIC DISTURBANCE, PERIPHERAL NEUROPATHY AN D KIDNEY (

CONTD. SEE

"TOXICOLOGICAL")

Explanation of Carcinogenicity:MERCURY HAS NOT BEEN IDENTIFIED AS A SUSPECTED CARCINOGEN BY NTP, IARC, OR OSHA.

Effects of Overexposure:INHALATION:ACUTE EXPOSURE: DYSPNEA, COUGH, FEVER, NAUSEA, VOMITING, DIARRHEA, STOMATITIS, SALIVATION, METALLIC TASTE, ABDOMINAL PAIN, DIZZINESS, CLUMSINESS, SLURRED SPEECH, HEADACHE, ALBUMENURIA. CHRO NIC EXPOSURE: TREMORS, SALIVATION, STOMATITIS, LOOSENING OF THE TEETH, BLUE LINES ON THE GUMS, PAIN, NUMBNE

SS IN THE EXTREMITIES, NEPHRITIS, DEARRHEA, ANXIETY, HEADACHE, WEIGHT LOSS, ANOREXIA, MENTAL DEPRESSION, INSOMNIA, IRRITABILITY, INSTABILITY, HALLUCINATIONS, MENTAL DETERIORATION. SKIN: REDNESS, IRRITATION, SENSITIZATION DERMATITIS, PERIHPHERAL NEUROPATHY. EYE CONTACT: IRRITATION, VISUAL DIS TURBANCES.

Medical Cond Aggravated by Exposure:SKIN CONTACT:SENSTIZATION DERMATITIS MAY OCCUR IN PREVIOUSLY EXPOSED WORKERS.

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

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First Aid:INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. MAINTAIN AIRWAY AND BLOOD PRESSURE AND ADMINISTER OXYGEN. KEEP PERSON WARM AND AT REST. ADMINISTRATION OF OXYGEN SHOULD BE PERFORMED BY QUALIFIED PERSONNEL. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND WATER UNTIL NO EVIDENCE OF SUBSTANCE REMAINS (APPROX. 15-20 MINUTES). GET MEDICAL ATTENTION. INGESTION:
IF CONSCIOUS AND NOT CONVULSIVE, GIVE TWO TO FOUR GLASSES (CONTD. SEE "ECOLOGICAL")

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

Flash Point:INFLAMMABLE
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 APPROPRIATE PROTECTIVE EQUIPMENT ATTEMPT TO STOP LEAK. SMALL SPILLS: TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER RECLAMATION OR DISPOSAL. LARGE SPILLS: DIKE FAR AHEAD OF SPILL FOR LATER RECLAMATION OR DISPOSAL. KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE MATERIALS. STORE IN PLASTIC, GLASS, OR 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:FOR AIRBORNE CONCENTRATIONS EQUAL TO OR LOWER THAN 0.5 MG/M3: USE ANY CHEMICAL CARTRIDGE RESPIRATOR WITH CARTRIDGES PROVIDING PROTECTION AGAINST MERCURY. ANY SUPPLIED-AIR RESPIRATOR. ANY SELF-CONTAINED BREATHING APPARATUS; FOR EXPOSURE >0.5 MG/M3 AND < OR = TO 1.25 MG/M3: USE ANY SUPPLIED AIR RESPIRATOR OPERATED IN A CONTINUOUS (CONTD. SEE "OTHER INFO")

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:WEAR CHEMICAL SAFETY GOGGLES AND FULL FACE SHIELD.

Other Protective Equipment:WEAR APPROPRIATE IMPERVIOUS CLOTHING AND EQUIPMENT TO PREVENT SKIN CONTACT. MAINTAIN EYE WASH AND QUICK DRENCH FACILITY IN WORK AREA.

Work Hygienic Practices:NO SMOKING, EATING OR DRINKING IN WORK AREA.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:Z2

Boiling Pt:=356.7C, 674.F

Melt/Freeze Pt:=-38.7C, -38.F

Vapor Pres:0.002 MM HG@25C

Vapor Density:7.0(AIR=1)

Spec Gravity:13.5930 (H2 O= 1)

Solubility in Water:INSOLUBLE

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

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

Stability Indicator/Materials to Avoid:YES

ACETYLIPIIC CMPDS,ALUMINUM,AMINES, NH3, BORON, BROMINE, METHYL AZIDE METHYLSILAN

E, OXIDANTS, LITHIUM, NA, K, RUBIDIUM. OXALIC ACID,

SODIUM CARBIDE, TETRACARBONYLNICKEL, NITROMETHANE, SILVER

PERCHLORATE, COPPER & ALLOYS, CHLO

Stability Condition to Avoid:ELEVATED TEMPERATURES AND OPEN FLAMES.

STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

Hazardous Decomposition Products:TOXIC VAPORS.

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

Toxicological Information:(CONTD. FROM "HEALTH HAZARDS") DAMAGE AS IN CHRONIC INHALATION. INGESTION: ACUTE

: METALLIC MERCURY GENERALLY

SHOWS NO EFFECT. HOWEVER, IN EXCEPTIONAL CASES EXISTING INTERNAL SORES MAY ALLOW MERCURY TO ACCUMULATE WITH SERIOUS OR EVEN FATAL RESULTS. ALSO ASPIRATION INTO LUNGS IS A REMOTE POSSIBILITY AND THIS WOULD CAUSE A PERMANENT HAZARD. EYE CONTACT: ACUTE: MAY CAUSE IRRITATION. CHRONIC EXPOSURE : MERCURY MAY BE DEPOSITED IN THE LENS OF THE EYE, CAUSING VISUAL DISTURBANCES.

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Ecological Information
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Ecol

ogical:(CONTD. FROM "FIRST AID") OF WATER, AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT. FROM SITTING POSITION HEAD MUST BE LOWER THAN HIPS TO PREVENT ASPIRATION. KEEP PATIENT WARM AND AT REST. GET MEDICAL ATTENTION. EYE CONTACT: WASH EYES WITH LARGE AMOUNTS OF WATER, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROX. FIFTEEN TO TWENTY MINUTES). GET MEDICAL ATTENTION.

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Disposal Considerations
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Waste Disposal Methods:SCRAP MERCURY CAN BE RECLAIMED. DISPOSAL MUST BE IN ACCORDANCE WITH 40 CFR 262. EPA HAZARDOUS WASTE CODE # U151.

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MSDS Transport Information
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Transport Information:DOT HAZARD CLASS: ORM-B; DOT IDENTIFICATION NUMBER: NA 2809.

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Regulatory Information
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SARA Title III Information:SUBJECT TO SARA SECTION 313 ANNUAL TOXIC RELEASE REPORTING. CERCLA SECTION REPORTABLE QUANTITY: 1 LB.

Federal Regulatory Information:NONE SPECIFIED BY MANUFACTURER.

State Regulatory Information:(CONTD. FROM "OTHER INFO") PROVIDING PROTECTION AGAINST MERCURY. ANY AIR-PURIFYING FULL FACEPIECE RESPIRATOR (GAS MASK) WITH A CHIN-STYLE FOR FRONT - OR BACK-MOUNTED CANISTER PROVIDING PROTECTION AGAINST MERCURY. ANY POWERED AIR-PURIFYING RESPIRATOR WITH A TIGHT-FITTING FACEPIECE AND A CANISTER PROVIDING PROTECTION AGAINST MERCURY. FOR EXPOSURE = TO OR > 28 MG/

M3: ANY SUPPLIED AIR RESPIRATOR WITH A HALF-MASK AND OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

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

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