

PALMER INSTRUMENTS INC -- MERCURY -- 6685-00-291-0991

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

Product ID:MERCURY

MSDS Date:04/03/1991

FSC:6685

NIIN:00-291-0991

MSDS Number: BZNRK

=== Responsible Party ===

Company Name:PALMER INSTRUMENTS INC

Address:234 WEAVERVILLE HWY

City:ASHEVILLE

State:NC

ZIP:28804

Country:US

Info Phone Num:704-645-6059

Emergency Phone Num:704-645-6059

CAGE:23471

=== Contractor Iden

tification ===

Company Name:PALMER INSTRUMENTS INC.

Address:234 WEAVERVILLE HWY.

Box:City:ASHEVILLE

State:NC

ZIP:28804

Country:US

Phone:704-658-3131

CAGE:23471

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

Ingred Name:MERCURY (SARA 313) (CERCLA); (METALLIC MERCURY)
(QUICKSILVER)

CAS:7439-97-6

RTECS #:OV4550000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C, 0.1 MG/M3; Z-2

ACGIH TLV:S,0.025 MG/M3; A4;96

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:ELEMENTAL HG,LIQ/VAP,TOXIC DUE TO LIQ SOLUBILITY,LACK OF CHARGE,MEMBRANE PERMEABILITY.INHAL 80%VAP DIFFUSE RAPIDLY THRU ALVEOLAR MEMBRANES INTO BLOOD,SYSTEMATICALLY TRANSP TO BODY TISSUE/BRAIN.HI VAP CONCEN EXPO FOR BRIEF PER CAUSE

PNEUITIS,CHEST

PAINS,DYSPNEA,COUGH,STOMATITIS,GINGIVITS,SALV.ABSORBED SLOWLY (SIGN/SYMP)

Effects of Overexposure:THRU SKIN.CHRONIC SYSM:CNS W/TREMORS,VAR NEUROPSYCHIATRIC DIST.GI UPTAKE OF HG

LOW(5%).SKIN:IRRIT/SENS/NEUROTOXIN/NEPHROTOXIN.RED,IRRIT,SEN DERM,ABSORBED THRU INTACT SKIN CAUSING ANURIA.EYE:IRRIT,CORR ,CORNEAL INJURY/BURNS,VISUAL

DIST.INGEST:NEUROTOXIC/NEPHROTOXIC,VIOLENT PAIN,PROFUSE VOMIT,SEVER PURG,PERI VASCU (SUPPL)

Medical Cond Aggravated by Exposu

re:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYE:FLUSH W/RUNNING WATER FOR 15MINS,INCLUDE UNDER EYELIDS.

SKIN:REMOVE CONTAMIN CLOTH.WASH W/SOAP/WATER. INHAL:REMOVE TO FRESH AIR.RESTORE &/OR SUPPORT BREATH AS NEEDED.ADMIN OXY FOR CHEM PNEUMONITIS . INGEST:GASTRIC LAVAGE W/5% SOLN OF SODIUM FORMALDEHYDE SULFOXYLATE FOLLOW W/2%NAHCO2,FINALLY LEAVE 250CC OF SODIUM FORMALDEHYDE SULFOXYLATE IN STOMACH.GET MED ASS IST.

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

Extinguishing Media:DRY CHEM,CARBON DIOXIDE,WATER SPRAY,FOAM.LG

FIRES:USE WATERSPRAY,FOG OR ALCOHOL FOAM.

Fire Fighting Procedures:FIREFIGHTING:MOVE CNTNRS FRM AREA IF

POSSIBLE.COOL CNTNRS EXPO TO FLAMES W/WATER FRM SIDE TIL WELL AFT FIRE IS OUT.USE AGENTS SUITABLE FOR TYPE OF FIRE.

Unusual Fire/Explosion Hazard:USE WATER IN FLOODING AMTS AS FOG. AVOID BREATHING CORROSIVE & POISONOUS VAPORS. KEEP UPWIND.

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

Spill Release Procedures:HG EVAPORATE VERY SLOWLY.SPILL HG FORMS TINY GLOBULES EVAPORATE FASTER THAN SINGLE POOL,DEVELOPING VAP CONCEN.DO NOT TOUCH.STOP W/O RISK.TAKEUP W/SAND/OTHER ABSORB MATL.PLACE INTO CNTNR.HG SPILL KIT MAY BE USED.LG SPILL DIKE.ISOLATE AREA/DENY ENTRY.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage

Precautions:STORE IN CLSD UNBREAKABLE

CNTNR(POLYETHYLENE)IN COOL DRY WELL-VENTI AREA AWAY FROM HEAT SOURCES.PROTECT CNTNR FRM PHYS DMG.

Other Precautions:PROVIDE PREPLACEMENT/PERIODIC MED EXAMS FOR REG EXPO TO HG W/EMPHASIS DIRECTED TO CNS/SKIN/LUNGS/LIVER/KIDNEYS/GI TRACT.

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

Respiratory Protection:SELF-CONTAINED BREATHING APPARATUS CAN BE USED UP TO 5MG/M3 W/FULL FACEPIECE ABOVE 1MG/M3.POSITIVE PRESSURE-TYP AIR SUPPLIED BREATH EQPMT RECOMMENDED ABOVE 5MG/M3.

Ventilation:ADEQU EXHAU VENTI TO MEET TLV REQMTS.OPERATIONS REQUIRING HG SURFACE REDUCE TEMP TO LIMIT VAP/MIN VAP EXPO W/LOC EXHAUST

Protective Gloves:RUBB GLOVES

Eye Protection:CHEM SAF GLASSES.

Other Protective Equipment:PROTECTIVE CLOTH APPROPRIATE FOR WORK SITUATION.

Work Hygienic Practices:SEPARATE WORK/STREET CLOTH.STORE WORKCLOTH IN SPEC LOCKERS.SHOWER BEF CHANGING TO STREET CLOTHES.

Supplemental Safety and Health

INCOMP M

ATL:METHYLSILANCE,OXY,OXIDANTS(BR,PEROXYFORMIC ACID,CHLORINE BIOXIDE,NITRIC ACID,TETRACARBONYLNICKEL,NITROMETHANE,SILVER PERCHLORATE). HEALTH HAZ:DEATH FRM UREMIA.INHAL:IRRIT,SENS,NEUROTOXIC.I MMED DYSYPNEA,FEVER,NAU,VOMIT,DIARRH,METALLIC TASTE,BRONCH,PULM EDEMA,PNEUMOTHORAX,ACIDOSIS,RENAL DMG/FAILURE,MERCURIALIS

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

HCC:T6

Boiling Pt:B.P. Text:675F,357C

Melt/Freeze Pt:M.P/F.P Text:-38F,-39C

Vapor Pres:0.0012@2

OC
Vapor Density:7.0
Spec Gravity:13.6
Solubility in Water:INSOLUBLE
Appearance and Odor:SILVER-WHITE, HEAVY MOBILE LIQUID METAL.

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

VIOLENT RX:ACETYLINIC CMPDS;AMMONIA;BORON;DIIODOPHOSPHIDE;ETHYLENE
OXIDE;METALS(AL,K,LI,NA,RU),METHYLAZIDE,(SUPPLEMENTA)
Stability Condition to Avoid:DOES NOT IGNITE EASILY.FLAMM,POIS GASES
MAY ACCUMULATE IN TANKS/HOPPER CARS.MAY IGNITE
COMBUST(WOOD,PAPER,OIL).
Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS INCLUDE
TOXIC MERCURY VAPOR & OXYGEN.

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

Waste Disposal Methods:NONE SPECIFIED BY MANUFACTURER. HMIS:DISPOSE IAW
ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.CONSULT PROPER
AUTHORITIES FOR ADVICE.

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.