

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

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Product Identification  
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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 Identification ===  
Company Name:PALMER INSTRUMENTS INC.  
Address:234 WEAVERVILLE HWY.  
Box:City:ASHEVILLE  
State:NC  
ZIP:28804  
Country:US  
Phone:704-658-3131  
CAGE:23471

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Composition/Information on Ingredients  
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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

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===== Hazards Identification =====  
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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,DYSYPNEA,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 Expos

ure:NONE SPECIFIED BY MANUFACTURER.

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

SIST.

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===== Fire Fighting Measures =====  
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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 M AY BE USED.LG SPILL DIKE.ISOLATE AREA/DENY ENTRY.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Sto

rage 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 ABOV 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 STREAT CLOTHES.

Supplemental Safety and Health

INCOMP

MATL: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

DYSPNEA,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@

20C  
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;DIODOPHOSHPIDE;ETHYLENE  
OXIDE;METALS(AL,K,LI,NA,RU),METHYLAZIDE,(SUPPLEMENTA)  
Stability Condition to Avoid:DOES NOT IGNIT EREADILY.FLAMM,POIS GASES  
MAYACCUMULATE IN TANKS/HOPPER CARS.MAY IGNIT  
COMBUST(WOOD,PAPER,OIL).  
Hazardous Decomposition Pr  
oducts:THERMAL DECOMPOSTION 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.

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