

PRINCO INSTRUMENTS INC -- 77-3, METALLIC MERCURY ( FOR THERMOMETER ) --  
6685-00-894-4516

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

Product ID:77-3, METALLIC MERCURY ( FOR THERMOMETER )

MSDS Date:01/15/2001

FSC:6685

NIIN:00-894-4516

Status Code:A

MSDS Number: CLMGS

=== Responsible Party ===

Company Name:PRINCO INSTRUMENTS INC

Address:1020 INDUSTRIAL HWY

City:SOUTHAMPTON

State:PA

ZIP:18966-4095

Country:US

Info Phone Num:215-355-1500

Emergency Phone Num:813-248-0385 CHEM-TEL

CAGE:48620

=== Contractor Identification ===

Company Name:PRINCO INSTRUMENTS INC

Address:1020 INDUSTRIAL HWY

Box:City:SOUTHAMPTON

State:PA

ZIP:18966-4095

Country:US

Phone:215-355-1500

Contract Num:SP0440-01-W-6651

CAGE:48620

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

Ingred Name:MERCURY

CAS:7439-97-6

RTECS #:OV4550000

OSHA PEL:0.05 MG/M3

ACGIH TLV:0.025 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

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===== Hazards Identification =====  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:INHALATION OF HIGH CONCENTRATION OF MERCURY VAPOR CAN CAUSE ALMOST IMMEDIATE DYSPNEA, COUGH, FEVER, NAUSEA, VOMITING, DIARRHEA, STOMATITIS, SALIVATION AND METALLIC TASTE. CHRONIC: INHALTION OF MERCURY VAPOR OVER A LONG PERIOD CAUSES MERCURIALISM. SKIN: IRRITAION AND SENSITIZ ATION DERMATITIS.

INGESTION: NO IMMEDIATE EFFECTS. MERCURY ACCUMULATION MAY RESULT IN SERIOUS OR EVEN FATAL EFFECTS. EYES: MA Y CAUSE IRRITATION. CHRONIC EXPOSURE MAY RESULT IN MERCURY DEPOSITION IN THE EYE LENS, CAUSING VISUAL DISTURBANCES.

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

Effects of Overexposure:THE SYMPTOMS MAY RESOLVE OR MAY PROGRESS TO NACROTIZING BRONCHLITIS, PNEUMONITIS, PULMONARY EDEMA AND

PNEUMOTHORAX INTOXICATION SYMPTOMS ARE CHARACTERIZED BY METALLIC TASTE, NAUSEA, ABDOMINAL PAIN, VO MITING, DIZZINESS, SLURRED SPEECH, DIARRHEA, HEADACHE AND ALBUMINURIA. CHRONIC: FINDINGS ARE EXTREMELY VARIABLE AND INCLUDE TREMORS, SALIVATION, STOOMATITIS, LOOSENING OF THE TEETH, BLUE LINES ON THE GUMS, PAIN AND NUMBNESS IN THE EXTREMITIES, NEPHRITIS, DIARRHEA, ANXIETY, HEADACHE, WEIGHT LOSS, ANOREXIA, MENTAL DEPRESSION, INSOMNIA, IRRITABILITY, INSTABILITY, HALL

UCINATIONS AND EVIDENCE OF MENTAL DETERIORATION.

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===== First Aid Measures =====  
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First Aid:INHALATION:REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION, ADMINISTER OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP & WATER UNTIL NO EVIDENCE OF SUBSTANCE REMAINS (APPROX. 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY. INGESTION:IF CONSCIOUS, GIVE 2-4 GLASS OF WATER & INDUCE VOMITING. GET MEDICAL HELP IMME DIATELY.

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===== Fire Fighting Measures =====  
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Flash Point:INFLAMMABLE

Extinguishing Media:SMALL FIRE: DRY CHEMICAL, CO2, HALON, WATER SPRAY, OR FOAM. LARGE: WATER SPRAY, FOG, 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 THE AREA OF LEAK OR SPILL. WEARING APPROPRIATE PROTECTIVE EQUIPMENT, ATTEMPT TO STOP LEAK. FOR SMALL SPILLS, TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER RECLAMATION OR DISPOSAL. FOR LARGE SPILLS, DIKE FAR AHEAD OF SPILL FOR LATER RECLAMATION OR DISPOSAL. KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY.

===== 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.

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

Respiratory Protection: USE SUPPLIED AIR RESPIRATOR OR SELF CONTAINED BREATHING APPARATUS.

Ventilation: PROVIDE LOCAL EXHAUST, PROCESS ENCLOSURE VENTILATION, OR GENERAL DILUTION TO MEET PERMISSIBLE EXPOSURE LIMITS.

Protective Gloves: APPROPRIATE TO PREVENT SKIN CONTACT.

Eye Protection: CHEMICAL SAFETY GOGGLES AND FULL FACE SHIELD.

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

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

Supplemental Safety and Health

MERCURY IS SEALED

IN A GLASS THERMOMETER AND THERE IS NO DANGER OF OVEREXPOSURE UNDER NORMAL USE. IF THERMOMETER IS BROKEN, OVEREXPOSURE CAN OCCUR AND PRECAUTIONS SHOULD BE TAKEN FOR HANDLING MERCURY.

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

HCC: Z2

Boiling Pt: =357.C, 674.6F

Melt/Freeze Pt: =-39.C, -38.2F

Vapor Pres: 0.002MMHG@25C

Vapor Density: 7.0

Spec Gravity: 13.5939

Evaporation Rate & Reference: N/A (BUAC=1)

Solubility in Water: INSOLUBLE

Appearance and Odor: ODORLESS;

SILVERY LIQUID WITH METALLIC LUSTER

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

Stability Indicator/Materials to Avoid: YES

ACETYLIC COMPOUNDS, AMIDES, AMMONIA, BORON. BROMINE, METHYL AZIDE, METHYLSILANE

Stability Condition to Avoid: ELEVATED TEMPERATURES AND OPEN FLAMES.

Hazardous Decomposition Products: OXIDANTS, LITHIUM, SODIUM, POTASSIUM, RUBIDIUM, OXALIC ACID, SODIUM CARBIDE, TETRACARBONYLNICKEL, NITROMETHANE, SILVER PERCHLORATE, COPPER AND ALLOYS, CHLORINE DIOXIDE, 3-BROMOPROPYNE

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

Waste Disposal Methods: SCRAP MERCURY CAN BE RECLAIMED. DISPOSAL MUST BE IN ACCORDANCE WITH 40CFR 262 EPA HAZARDOUS WASTE #D151.

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

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