

CONNECTICUT VALLEY INDUSTRIES INC -- MERCURY IN GLASS THERMOMETER --
6660-00-282-7949

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

Product ID:MERCURY IN GLASS THERMOMETER
MSDS Date:08/22/1997
FSC:6660
NIIN:00-282-7949
MSDS Number: CFKDH
=== Responsible Party ===
Company Name:CONNECTICUT VALLEY INDUSTRIES INC
Address:8 CENTER RD
City:OLD SAYBROOK (FORMALLY IN ESSEX)
State:CT
ZIP:06475
Country:US
Info Phone
Num:203-388-0822/718-821-7110
Emergency Phone Num:203-388-0822/718-821-7110
Preparer's Name:OCCUPATIONAL HEALTH SVC
CAGE:55560

=== Contractor 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
CAGE:55560

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

Ingred Name:MERCURY (SARA 313) (CERCLA)
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:TLV FOR MERCURY METAL IS 0.05 MG/M3 (S).
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE- PRODUCT IS AN ARTICLE. IF
THERMOMETER IS BROKEN/IN FIRE, INHALATION OF HIGH CONCENTRATIONS OF

MERCURY CAN CAUSE KIDNEY, LIVER & CNS DAMAGE. CAN BE ABSORBED
THROUGH SKIN. EYE CONTACT CAUSES IRRITATION. HARMFUL IF INGESTED.
CHRONIC- MAY CAUSE TREMORS, DERMAL SENSITIZATION, KIDNEY, LIVER
DAMAGE.

Explanation of Carcinogenicity:NONE
Effects of Overexposure:INHALATION OF MERCURY VAPORS: DYSPNEA, COUGH,
NAUSEA, VOMITING, METALLIC TASTE, TEARING, DIARRHEA, HEADACHE,
SALIVATION, CARDIAC ABNORMALITIES, CHEST PAIN AND TIGHTNESS, SKIN
SENSITIZATION, EYE REDNESS, BURNING
SENSATION
Medical Cond Aggravated by Exposure:KIDNEY, LIVER AND LUNG DISEASE.

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

First Aid:EYE:WASH IMMEDIATELY WITH LARGE AMOUNT OF WATER/NORMAL
SALINE. SKIN:WASH WITH SOAP & WATER. INHALED: REMOVE TO FRESH AIR.
PROVIDE CPR/OXYGEN IF NEEDED. INGESTION:GET MEDICAL HELP
IMMEDIATELY. REMOVE BY GASTRIC LAVAGE. NOTE TO
PHYSICIAN:GIVEDIMERCAPROL, 3MG/KG, EVERY 4 HOURS FOR FIRST 2 DAYS
AND THEN 2 MG/KG EVERY 12 HOURS FOR 8 DAYS.

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

Flash Point:NON-FLAMMABLE
Lower Limits:NOT RELEVANT
Upper Limits:NOT RELEVANT
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL
FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED
CONTAINERS.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-
APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE
OPERATED IN THE POSITIVE PRESSURE MODE.
Unusual

Fire/Explosion Hazard:MERCURY IS NOT COMBUSTIBLE, BUT WILL VAPORIZE RAPIDLY WHEN HEATED, CREATING TOXIC FUMES.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT, VENTILATE AREA. IF BROKEN, COLLECT AND TRANSFER TO PROPER CONTAINER FOR DISPOSAL OR RECLAMATION. USE INERT ABSORBENT SUCH AS SAND. DO NOT TOUCH MATERIAL. A MERCURY KIT MAY B E USED FOR SMALL SPILL.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:HANDLE AND STORE WITH CARE. INSPECT THERMOMETER FOR DAMAGE BEFORE HANDLING OR STORAGE.

Other Precautions:KEEP OUT OF REACH OF SMALL CHILDREN.

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

Respiratory Protection:NONE SHOULD BE NEEDED. IF THERMOMETER IS BROKEN OR IN FIRE, NIOSH CERTIFIED RESPIRATOR FOR MERCURY OR NIOSH-APPROVED SELF- CONTAINED BREATHING APPARATUS SHOULD BE WORN.

V

entilation:IF THERMOMETER IS BROKEN OR IN FIRE, USE LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves:RUBBER, LATEX IF HANDLING BROKEN THERMO

Eye Protection:SAFETY GLASSES WITH SIDE SHIELD/GOGGLESS

Other Protective Equipment:EYE BATH, SAFETY SHOWER, WASHING FACILITIES

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

THERMOMETER CONTAINS APPROXIMATELY ONE CC (13.59 GRAMS) OF MERCURY.

HAZARDOU

S ONLY IF BROKEN OR IN FIRE, PER MSDS.

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

HCC:Z2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:674F,357C

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

Decomp Temp:Decomp Text:NOT KNOWN

Vapor Pres:0.002 @77F

Vapor Density:7.0

Spec Gravity:13.5939

Viscosity:1.55 CPS @68F

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVERY LIQUID WITH A METALLIC LUSTER IN GLASS

THERMOMETER - ODORLESS

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid: YES

ACETYLENE, ALUMINUM, AMINES. AMMONIA+MOISTURE, CALCIUM, COPPER,
ETHYLENE OXIDE, NITRIC ACID+ALCOHOLS, K, NA, SULFURIC AC

Stability Condition to Avoid: EXCESSIVE HEAT, BREAKING THERMOMETER

Hazardous Decomposition Products: HIGHLY TOXIC VAPORS OF MERCURY AND
MERCURY OXIDES

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE

WITH ALL LOCAL, STATE

AND FEDERAL REGULATIONS. REPORTABLE QUANTITY FOR MERCURY IS 1
POUND.

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