

BETHLEHEM APPARATUS CO -- MERCURY -- 6810-00-281-7452

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

Product ID:MERCURY  
MSDS Date:08/18/1988  
FSC:6810  
NIIN:00-281-7452  
MSDS Number: BHXYF  
=== Responsible Party ===  
Company Name:BETHLEHEM APPARATUS CO  
Address:890 FRONT ST  
Box:Y  
City:HELLERTOWN  
State:PA  
ZIP:18055-1507  
Country:US  
Info Phone Num:215-838-7034  
Emergency Phone Num:215-838-7034  
Preparer's Name:BRUCE LAW  
RENCE  
CAGE:89399

=== Contractor Identification ===  
Company Name:BETHLEHEM APPARATUS CO  
Address:890 FRONT ST  
Box:City:HELLERTOWN  
State:PA  
ZIP:18055  
Country:US  
Phone:610-838-7034  
CAGE:89399  
Company Name:COLUMBUS CHEMICAL INDUSTRIES INC  
Address:N 4335 TEMKIN RD  
Box:8  
City:COLUMBUS  
State:WI  
ZIP:53925-0008  
Country:US  
Phone:920-623-2140  
CAGE:5Y144

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

Ingred Name:MERCURY (SARA III)  
CAS:7439-97-6  
RTECS #:OV4550000  
Fraction by Wt: 100.0

%  
OSHA PEL:S, C, 0.1 MG/M3  
ACGIH TLV:S, 0.05 MG/M3; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: SKIN:IRRITATION. ABSORBED  
THROUGH SKIN CAUSING ANURIA. EYE:IRRITATION, CORNEAL INJURY OR  
BURNS. INGESTION:IMMEDIATE NECROSIS IN MOUTH, THROAT, ESOPHAGUS &  
STOMACH. DEATH MAY OC  
CURE. INHALATION: DYSPNEA, COUGH, FEVER,  
NAUSEA & VOMITING, DIARRHEA, STOMATITIS, SALIVATION & METALLIC  
TASTE. CHRONIC: CNS DISTURBANCES.  
Explanation of Carcinogenicity:DATA PER MSDS  
Effects of Overexposure:TREMORS, CONVULSIONS & OTHER CNS DISTURBANCES,  
PNEUMONITIS, CHEST PAINS, DYSPNEA, COUGHING, STOMATITIS, GINGIVITIS  
AND LOOSENING OF TEETH, SALIVATION, LOSS OF MEMORY, METALLIC TASTE,  
DIZZINESS, CLUMSI NESS, SLURRED SPEECH, DIARRHEA, PAIN & NUMBNESS  
IN EXTREMITIES, NEPH  
RITIS, ANXIETY, HEADACHE, WEIGHT LOSS, AND  
INSOMNIA.  
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF  
ALCOHOLISM, CHRONIC KIDNEY DISEASE OR KNOWN ALLERGY TO MERCURY MAY  
BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE  
CPR/OXYGEN. GET MEDICAL ATTENTION. EYE: IMMEDIATELY FLUSH EYES WITH  
PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET M  
EDICAL  
ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASHSKIN WITH  
PLENTY OF SOAP & WATER. INGESTION: GET IMMEDIATE MEDICAL ATTENTION.  
A 5% SOLUTION OF SODIUM FORMALDEHYDE SULFOXYLATE MAY BE USED TO  
INDUCE VOMITING.

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

Flash Point:NONE  
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL.  
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &  
FULL PROTECTIVE EQUIPMEN

T WHEN FIGHTING CHEMICAL FIRE. USE WATER  
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.  
Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE  
PRODUCTION OF CORROSIVE OR POISONOUS VAPORS.

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

Spill Release Procedures:SMALL SPILL: PICK UP WITH VACUUM EQUIPMENT  
SPECIFICALLY DESIGNED FOR MERCURY PICK UP OR USE MERCURY SPILL KIT.  
LARGE SPILL: EVACUATE AND VENTILATE AREA. IF POSSIBLE, STOP LEAK.  
DIKE TO RETAIN. VACUUM UP FREE LIQUID. DO NOT TOUCH SPILLED  
MATERIAL.  
Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE IN SEALED UNBREAKABLE  
POLYETHYLENE CONTAINERS IN A COOL, DRY, WELL VENTILATED AREA AWAY  
FROM HEAT. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.  
Other Precautions:THIS CHEMICAL IS SUBJECT TO SARA SECTION 313  
REPORTING. PROVIDE PREPLACEMENT AND PERIODIC MEDICAL EXAMS FOR  
THOSE REGULARLY EXPOSED TO MERCURY, WITH EMPHASIS ON CNS, SKIN,  
LUNGS, LIVER, KIDNEYS AND G. I. TRACT.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION  
EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED RESPIRATORS AS  
PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND  
NIOSH-RESPIRATOR DECISION LOGIC-PUBLICATION NUMBER 87.108.  
Ventilation:PROVIDE SUFFICIENT GENERAL/LOCAL EXHAUST VENTILATION IN  
PATTERN/VOLUME TO CONTROL INHALATION EXPOSURES BELOW OSHA'S PEL.  
Protective Gloves:RUBBER  
Eye Protection:CHEMICAL SAFETY GOGGLES  
Other Protective Equipment:SEPARATE WORK AND STREET CLOTHING. STORE  
WORK CLOTHING IN SPECIAL LOCKERS. SHOWER BEFORE CHANGING TO STREET  
CLOTHES.  
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES.  
Supplemental Safety and Health  
DO NOT GET ON SKIN, IN EYES OR ON CLOTHING. DO NOT BREATHE VAPORS.

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

## I Properties =====

HCC:T6

Boiling Pt:=673.9C, 1245.F

Melt/Freeze Pt:=-38.9C, -38.F

Vapor Pres:0.002MMHG

Vapor Density:7.0

Spec Gravity:13.5939

Solubility in Water:INSOUBLE

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

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

Stability Indicator/Materials to Avoid:YES

AL,ACETYLENE,AMINES,COPPER OR ITS ALLOYS NITRIC ACIDS.

Stability Condition to Avoid:HIGH TEMPERATURES

Hazardous Decomposition Products

ts:THERMAL DECOMPOSITION PRODUCTS INCLUDE

TOXIC MERCURY VAPORS AND MERCURY OXIDES.

## ===== Disposal Considerations =====

Waste Disposal Methods:DO NOT INCINERATE - RETURN TO RECLAMATION CENTER.

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