

FISHER SCIENTIFIC, CHEMICAL DIV. -- MERCURY -- 6685-00-851-4577

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Product Identification  
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Product ID:MERCURY

MSDS Date:12/12/1997

FSC:6685

NIIN:00-851-4577

MSDS Number: CCMRF

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC, CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100 OR 201-796-7523

Emergency Phone Num:201-796-710

0/800-424-9300(CHEMTREC)

Chemtre Ind/Phone:(800)424-9300

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

Company Name:FISHER SCIENTIFIC COMPANY

Address:52 FADEM ROAD.DOMESTIC DIVISION

City:SPRINGFIELD

State:NJ

ZIP:07081

Country:US

Phone:201-796-7100

CAGE:94480

Company Name:WHEELER BROS INC

Address:384 DRUM AVE

Box:737

City:SOMERSET

State:PA

ZIP:15501-0737  
Country:US  
Phone:814-443-7000  
CAGE:55683  
Company Name:WHEELER BROTHERS INC  
Address:INDUSTRIAL PARK, DRUM AVE  
Box:737  
City:SOMERSET  
State:PA  
ZIP:15501-2136  
Country:US  
Phone:814-445-9641  
Contract Num:SP0400-99-A-AA36-0480  
CAGE:2B144

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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;9  
6  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:EYE-MAY CAUSE SEVERE IRRITATION &  
POSSIBLE EYE BURNS. VAPORS MAY CAUSE EYE IRRITATION. SKIN-MAY CAUSE  
SKIN IRRITATION. INGESTION-MAY CAUSE GASTROINTESTINAL IRRITATION.  
INHALATION-CAUSES RESPIRATORY TR ACT IRRITATION. INHALATION OF  
F  
UMES MAY CAUSE METAL FUME FEVER. MAY CAUSE CENTRAL NERVOUS SYSTEM  
EFFECTS. CHRONIC: CHRONIC EXPOSURE TO MERCURY MAY CAUSE CENTRAL  
NERVOUS SYSTEM DAMAGE, FATIGUE, WEIGHT LOSS, TREMORS, PEROSNALITY  
CHANGES.  
Explanation of Carcinogenicity:MERCURY IS LISTED BY IARC AS A GROUP 3  
(INSUFFICIENT EVIDENCE) CARCINOGEN.  
Effects of Overexposure:SKIN-CHRONIC EXPOSURE TO MERCURY MAY CAUSE  
PERMANENT CENTRAL NERVOUS SYSTEM DAMAGE, FATIGUE, WEIGHT LOSS,  
TREMORS, PEROSNALITY CHANGES. INGE

STION-MAY CAUSE NAUSEA, VOMITING AND DIARRHEA. INHALATION-MAY CAUSE FLU-LIKE SYMPTOMS WITH METALLIC TASTE, FEVER, CHILLS, COUGH, WEAKNESS, CHEST PAIN, MUSCLE PAIN AND INCREASED WHITE BLOOD CELL COUNT. MAY CAUSE VERTIGO, ANXIETY, DEPRESSION, MUSCLE INCOORDINATION AND EMOTIONAL INSTABILITY.

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

First Aid:EYE-IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MIN, OCCASIONALLY LIFTING THE UPPER & LOWER LIDS. GET

T MEDICAL AID

IMMEDIATELY. SKIN-GET MEDICAL AID. IMMEDIATELY FLUSH SKIN WITH PLENTY OF SOAP & WATER FOR 15 MIN. INGESTION-NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL AID IMMEDIATELY. WASH MOUTH OUT WITH WATER. INHALATION-REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL AID. NOTE TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

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

Extinguishing Media:SUBSTANCE IS NONFLAMMABLE, USE AGENT MOST APPROPRIATE TO EXTINGUISH SURROWATER FOG, CARBON DIOXIDE, DRY CHEMICAL, FOAM. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE IN FLOODING AMOUNTS.

Fire Fighting Procedures:AS AN ANY FIRE, WEAR A SELF CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND. MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:COMBUSTION GENERATES TOXIC FUMES.

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

Spill Release Procedures:VACUUM OR SWEEP UP MATERIAL & PLACE INTO SUITABLE DISPOSAL CONTAINER. WEAR A SELF CONTAINED BREATHING APPARATUS & APPROPRIATE PERSONAL PROTECTION

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

Handling and Storage Precautions:WASH THOROUGHLY AFTER HANDLING REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. USE WITH ADEQUATE VENTLATION. MINIMIZE DUST GENERAT

ION AND ACCOMULATION. AVOID

BREATHING DUST, VAPOR, MIST, OR GAS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. KEEP CONTAINER TIGHTLY CLOSED.

Other Precautions:ANTIDOTE: THE USE OF D-PENICILLAMINE AS A CHELATING AGENT SHOULD BE DETERMINED BY QUALIFIED MEDICAL PERSONNEL. THE USE OF DIMERCAPROL OR BAL (BRITISH ANTI-LEWISITE) AS A CHELATING AGENT SHOULD BE DETERMINED BY QUALIFIED MEDICAL PERSONNEL.

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

Respiratory

Protection:FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29 CFR 1910.134. OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN STANDARD EN 149 APPROVED RESPIRATOR WHEN NECESSARY.

Ventilation:USE PROCESS ENCLOSURE OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:APPROPRIATE GLOVES TO PREVENT SKIN EXPOSURE.

Eye Protection:APPROPRIATE PROTECTIVE EYE GLASSES OR CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:WEAR APPROPRIATE PROTECTIVE CLOTHING TO

PREVENT SKIN EXPOSURES.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

ENGINEERING CONTROLS: USE ADEQUATE VENTILATION OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW THE PERMISSIBLE EXPOSURE LIMITS.

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

HCC:Z2

Boiling Pt:=-356.7C, 674.F

Melt/Freeze Pt:=-38.7C, -38.F

Vapor Pres:0.00

2@25C

Vapor Density:7.0

Spec Gravity:13.59

Viscosity:1.5.5 MP @25C

Solubility in Water:INSOLUBLE

Appearance and Odor:LIQUID, SILVER, ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

ACETYLENE, AMMONIA, BORON, PHOSPHODIPHENYL, CHLORINE CHLORINE DIOXIDE, METHYL AZIDE, SODIUM CARBIDE, HALOGENS, STRONG OXIDIZERS.

Stability Condition to Avoid:STABLE UNDER NORMALTEMPERATURES AND PRESSURES. HIGH TEMPERATURES, INCOMPATIBL

E MATERIALS, METALS.

Hazardous Decomposition Products:MERCURY AND MERCURY OXIDES.

Conditions to Avoid Polymerization:HAS NOT BEEN REPORTED.

===== Toxicological Information =====

Toxicological Information: CAS# 7439-97-6. MERCURY- ACGIH: AS HG: A4-NOT CLASSIFIED AS A HUMAN CARCINOGEN. IARC: GROUP 3 CARCINOGEN LISTED AS MERCURY, ARYL AND INORGANIC.

===== Ecological Information =====

Ecological: ECOTOXICITY-MARINE FISH (SALT WATER) TLM=0.29PPM/48H. CATFISH LC50=0.35 MG/L/96 H. MOLLUSK LC50=0.10PPM/96H. TADPOLE LC50=0.51PPM/96H. ENVIRONMENTAL FATE: SUBSTANCE HAS POTENTIAL TO BIOCONCENTRATE IN AQUATIC ORGANISMS. ON SOIL, SUBSTANCE IS SUSPECT TO VOLATILIZE RAPIDLY. IN WATER SUBSTANCE BINDS TO PARTICULATES & COLLECTS IN THE SEDIMENTS.

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

Waste Disposal Methods: DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL, STATE & LOCAL REGULATION  
S. RCRA D-SERIES MAXIMUM CONCENTRATION OF CONTAMINANTS: CAS# 7439-97-6; WASTE NUMBER D009; REGULATORY LEVEL 0.2 MG/L. RCRA D-SERIES CHRONIC TOXICITY REFERENCE LEVELS: CAS# 7439-97-6; CHRONIC TOXICITY REFERENCE LEVELS=0.002 MG/L. RCRA U-SERIES: CAS# 7439-97-6; WASTE # U151.

===== MSDS Transport Information =====

Transport Information: US DOT: SHIPPING NAME: RQ, MERCURY. HAZARD CLASS: 5. UN NUMBER: UN2809. PACKING GROUP: 1.

===== Regulatory Information =====

SARA Title III Information: SECTION 302(RQ): CAS#7439-97-6 : FINAL RQ=1 POUND (0.454 KG). SARA CODES: CAS#7439-97-6 : ACUTE, CHRONIC.  
Federal Regulatory Information: CAS#7439-97-6 IS LISTED ON THE TSCA INVENTORY.  
State Regulatory Information: CALIFORNIA, NEW JERSEY, FLORIDA, PENNSYLVANIA, MINNESOTA, MASSACHUSETTS.

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

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piling agencies):

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