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MICRO SWITCH, A DIVISION OF HONEYWELL -- IL50-001, GLASS ENCLOSED MERCURY SWITCH -- 5930-00-636-3917

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

Product ID:IL50-001, GLASS ENCLOSED MERCURY SWITCH

MSDS Date:06/04/1995

FSC:5930

NIIN:00-636-3917 Status Code:A

MSDS Number: CKQHF === Responsible Party ===

Company Name: MICRO SWITCH, A DIVISION OF HONEYWELL

Address:11 W. SPRING STREET

City:FREEPORT

State:IL ZIP:6 1032

Country:US

Info Phone Num:815-235-5500

Emergency Phone Num:815-235-5432

Resp. Party Other MSDS Num.:HONEYWELL ID #: IL-50-001

CAGE:KO531

=== Contractor Identification ===

Company Name: HONEYWELL INC. MICRO SWITCH DIVISION

Address:11 W SPRING ST

Box:City:FREEPORT

State:IL ZIP:61032 Country:US

Phone:815-235-6592

CAGE:91929

Company Name: MICRO SWITCH, A DIVISION OF HONEYWELL

Address:11 W. SPRING STREET

Box:City:FREEPORT

State:IL ZIP:61032 Country:US

Phone:815-235-5500

CAGE:KO531

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

Ingred Name:MERCURY CAS:7439-97-6 RTECS #:OV4550000 = Wt:100.

OSHA PEL:SEE TABLE Z-2 ACGIH TLV:0.025 MG/M3

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

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

LD50 LC50 Mixture: NO INFORMATION AVAILABLE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: AS SUPPLIED, THIS PRODUCT IS NOT HAZARDOUS.

ANY DAMAGE TO THE GLASS ENCLOSURE MAY RELAEASE MERCURY LIQUID &/OR VAPORS WHICH CAN BE EXTREMELY HAZARDOUS. EYE: MERCURY IS SLIGHTLY IRRITATING. SKIN: MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. PROLONGED/REPEATED EXPOSURE MAY CAUSE IRRITATION, SKIN SENSITIZATION. BROKEN OR DAMAGED GLASS ENCLOSURE MAY RESULT IN CUTS OR ABRASIONS. INGESTION: LIQUID MERC URY IS POORLY ABSORBED THROUGH FROM THE GI TRACT, & ACUTE INGESTION HAS BEEN ASSOCIATED WITH POISONING ONLY IN TH

E PRESENCE OF DECREASED GUT MOTILITY.

INHALATION: MERCURY VAPOR IS POISONOUS, IRRITATIN G TO THE RESPIRATORY SYSTEM. (SUPPL)

Explanation of Carcinogenicity:NO INFORMATION AVAILABLE. NOT LISTED ON NTP, OSHA, OR IARC LISTS OF CARCINOGENS.

Effects of Overexposure:INHALATION: MAY CAUSE INFLAMMATION OF THE RESPIRATORY TRACT, LUNG LESIONS, ACUTE KIDNEY DAMAGE & METAL FUME FEVER WHICH IS A TRANSIENT FLU-LIKE CONDITION INCLUDING FEVER, SWEATING, ACHES & PAINS & DIF FICULTY IN BRE

ATHING. INHALATION MAY

BE FATAL AS A RESULT OF SEVERE PULMONARY IRRITATION. ACUTE MERCURY POISONING CAN INVOLVE SWEATING, IRRITABILITY, INSOMNIA, LETHARGY, TACHYCARDIA, HYPERTENSION, & S KIN RASH.

Medical Cond Aggravated by Exposure: NONE PROVIDED BY MFR.

 First Aid Measures	

First Aid:EYE: FLUSH WITH WATER FOR 15 MINS. SEEK IMMEDIATE MEDICAL ATTENTION. SKIN: FLUSH IMMEDIATELY WITH WATER FOR 15 MINS, & THEN WASH SKIN THOROUGHLY

WITH SOAP & WATER. REMOVE CONTAMINATED
CLOTHING & SHOES. SEEK MEDICAL ATTENTION IF SYMPTOMS DEVELOP OR
PERSIST. DISPOSE OF CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE
VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION. HAVE VICTIM RINSE MOUTH
WITH WATER. DILU TE CONTENTS OF STOMACH BY ADMINISTERING 8 OZ OF
WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING
PERSON. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL HELP.

Flash Point:NONE

Lower Limits:NOT AVAILABL Upper Limits:NOT AVAILABL

Extinguishing Media:USE ANY MEDIA SUITABLE FOR THE SURROUNDING FIRES. NON-COMBUSTIBLE, SUBSTANCE ITSELF DOES NOT BURN. GLASS ENCLOSURE MAY BECOME DAMAGED FROM EXCESSIVE HEAT & RELEASE MERCURY.

Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR PROTECTIVE CLOTHING INCLUDING SELF CONTAINED BREATHING APPARATUS. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL. ISOLATE HAZARD AREA.

Un

usual Fire/Explosion Hazard:GLASS ENCLOSURE MAY BECOME DAMAGED FROM EXCESSIVE HEAT & RELEASE MERCURY. FUMES MAY BE TOXIC & IRRITATING & MAY INCLUDE MERCURY VAPORS.

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

Spill Release Procedures:WEAR ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. AVOID INHALATION OF DUSTS. VENTILATE THE AREA. KEEP UNNECESSARY PERSONNEL AWAY. CLOSE OFF AREA. IF MERCURY IS RELEASED, STOP THE FLOW OF MATERIAL & COLLECT WITH SPILL KIT, ASPI

RATION BOTTLE OR

APPROVED MERCURY VACUUM, IF THIS IS WITHOUT RISK. DO NOT PERMIT CONTACT WITH SPILLED MATERIAL. PICK UP CONTAINED MATERIAL WITH SPILL KIT.

Neutralizing Agent: NONE PROVIDED BY MFR.

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

Handling and Storage Precautions:HANDLING: HANDLE THIS PRODUCT IN A MANNER TO PREVENT DAMAGE TO THE GLASS ENCLOSURE. DO NOT GET MERCURY OR BROKEN GLASS IN EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE FUMES OR

VAPORS FROM THIS MATERI AL IF GLASS ENCLOSURE IS DAMAGED OR BROKEN. USE THIS PRODUCT ONLY WITH ADEQUATE VENTILATION. Other Precautions: KEEP AWAY FROM FOOD AND DRINKING WATER.

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

Respiratory Protection:IF VENTILATION IS NOT SUFFICIENT TO EFFECTIVELY REMOVE & PREVENT ACCUMULATION OF AIRBORNE VAPORS, MISTS OR FUMES CONTAINING MERCURY, APPROPRIATE NIOSH/MSHA RESPIRATORY PROTECTION MUST BE PROVIDED

Ventilation: USE LOCA

L EXHAUSE & PROCESS ENCLOSURE TO CONTROL AIRBORNE MISTS & VAPORS. USE OF A CORROSION-RESISTANT VENTILATION SYSTEM IS RECOMMENDED

Protective Gloves: IMPERVIOUS GLOVES

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS, CHEMICAL GOGGLES, &/OR FACE SHIELD

Other Protective Equipment: NONE PROVIDED BY MFR.

Work Hygienic Practices: DO NOT EAT, DRINK OR SMOKE IN WORK AREAS.

FOLLOW GOOD HYGIENE & HOUSEKEEPING PRACTICES.

Supplemental Safety and Health

HEALTH CONT: CHRONIC EXPOSURE CAN CAUSE NEU

ROBEHAVIORAL/PHYSHOLOGICAL

CHANGES

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

HCC:Z2

Boiling Pt:=356.7C, 674.1F

B.P. Text:MERCURY

Melt/Freeze Pt:=-38.7C, -37.5F

M.P/F.P Text:MERCURY

Decomp Temp:Decomp Text:NONE PROVIDED BY MFR.

Vapor Pres:0.0012 MMHG@20C (MERCURY)

Vapor Density:7.0(AIR=1)

Spec Gravity:13.4 (H20=1) (MERCURY)

pH:NONE PROVIDED

Viscosity: NONE PROVIDED BY MFR.

Evaporation Rate & Dr. Reference: 4 (BU ACETATE=1) (MERCURY

Solubility in Water: NONE PROVIDED

Appearance and Odor:GLASS SWITCH WITH LIQUID MERCURY, NO ODOR
Percent Volatiles by Volume:NONE PROVIDE
Corrosion Rate:NONE PROVIDED BY MFR
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES MERCURY & MERCURY VAPOR IS INCOMPATIBLE WITH ACETYLENE, ALUMINUM, AMINES, AZIDES, AMMONIA, BORON, DIIDOPHOSPHIDE, BROMINE, 3-BROMOPROPYNE, CALCIUM, CHLORINE, CHLORINE DIOXIDE, COPPER, ETHYLENE OXIDE, LITHIUM, ACIDS, OXIDANT Stab
ility Condition to Avoid:NORMALLY STABLE. AVOID HEAT & CONTACT WITH
INCOMPATIBLE MATERIALS. Hazardous Decomposition Products:TOXIC MERCURY VAPORS Conditions to Avoid Polymerization:WILL NOT OCCUR
========== Toxicological Information ==========
Toxicological Information:EXPOSURE TO MERCURY CAN CAUSE TOXICITY TO THE CNS, CHARACTERIZED BY TREMOR, ATAXIA AND LOSS OF COORDINATION, TO THE PERIPHERAL NERVOUS SYSTEM INCLUDING DECREASED STRENGTH AND ABNORMAL REFLEX RE
SPONSES. MERCURY CAN CAUSE MUTATION &/OR DNA DAMAGE IN BACTERIAL AND MAMMALIAN CELL CUTURES. OCCUPATIONAL HAS BEEN ASSOCIATED WITH SLIGHT INCREASE IN THE NUMBER OF OBSERVED CHROMOSOMAL ABERRATIONS. MERCURY HAS BEEN REPORTED TO CAUSE MALE AND FEMALE FERTILITY, AND BIRTH DEFECTS INCLUDING CLEFT PALATE AND SKELETAL DEFECTS IN HUMANS. HOWEVER, INFO IS INCOMPLETE.
============ Ecological Information =============
Ecological:DUE TO THE NATURE OF MERCURY, IT IS EXPECTED TO BE HARMFUL TO AQUATIC LIFE IN LOW CONCENTRATIONS. FISH: LC50 (96 HR) CAT FISH= 0.35 MG/L; LC50 (96 HR) BLUEGILL SUNFISH, RAINBOW TROUT, SNAKEHEAD FISH= 0.16-0.9 MG/L. AMPHIBIAN: LC50 (96 HR) RANA HEXADACTYLA

(TADPOLE) = 0.051 PPM. INVERTEBRATE: LC50 (48 HR) MODIOLUS

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

CARVALHOI (MOLLUSK) = 0.5 PPM; LC50 (96 HR) LYMNAEA ACUMINATA, MAIS COMMUNIS, HYDLRIL US FRANTZI, APLEXA HYPNORUM = 0.02 - 0.36 MG/L.

BY MFR.

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Waste Disposal Methods:ALL WASTES MUST BE HANDLED IN ACCORDANCE WITH LOCA, STATE & FEDERAL REGULATIONS. WASTES MAY REQUIRE AN EPA CODE FOR CORROSIVITY (D002). MERCURY SHOULD BE SALVAGED FOR PRUFICATION. DO NOT DISCHARGE MER CURY DOWN THE DRAIN.

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

SARA Title III Information:SARA 313: FORM R REPORTING REQUIRED FOR 1% DE MINIMUS CONCENTRATION. CERCLA: FINAL RQ= 1 LB (0.454 KG). State Regulatory Informati

on:"WARNING" THIS PRODUCT CONTAIN A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE REPRODUCTIVE/DEVELOPMENTAL EFFECTS: MERCURY (CAS # 7439-97-6)

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

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