

HONEYWELL INC DEFENSE AVIONICS SYSTEMS DIV -- GLASS ENCLOSED MERCURY SWITCH --  
5930-00-233-7166

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

Product ID:GLASS ENCLOSED MERCURY SWITCH

MSDS Date:12/02/1986

FSC:5930

NIIN:00-233-7166

Status Code:A

MSDS Number: CJGQJ

=== Responsible Party ===

Company Name:HONEYWELL INC DEFENSE AVIONICS SYSTEMS DIV

Address:9201 SAN MATEO NE

City:ALBUQUERQUE

State:NM

ZIP:87113-222

7

Country:US

Info Phone Num:505-828-5000

Emergency Phone Num:612-542-7500/505-828-5725

CAGE:07187

=== Contractor Identification ===

Company Name:HONEYWELL INC DEFENSE AVIONICS SYSTEMS DIV

Address:9201 SAN MATEO NE

Box:City:ALBUQUERQUE

State:NM

ZIP:87113-2227

Country:US

Phone:505-828-5000

CAGE:07187

Company Name:MICROSWITCH,DIVISION OF HONEYWELL

Address:11 W. SPRING ST.

Box:City:FREEPORT

State:IL

ZIP:61032

Country:US

Phone:815-235-5500

CAGE:27319

===== Composition/Information on Ingredi

ents =====

Ingred Name:MERCURY

CAS:7439-97-6

RTECS #:OV4550000

= Wt:100.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:see Table Z-2

ACGIH TLV:0.025 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:TARGET ORGANS: NONE FOR SWITCH (HMIS).

IF RELEASED, MERCURY CAN BE ABSORBED SLOWLY THROUGH THE SKIN.

EXCESSIVE EXPOSURE MAY CAUSE WEAKNESS, FATIGUE, LOSS OF WEIGHT, LOSS OF APPETITE, INSOMNIA, GASTRO INTESTINAL DISTURBANCES, TREMOR, GINGIVITIS. CHRONIC: UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:WEAKNESS, FATIGUE, LOSS OF WEIGHT, LOSS OF APPETITE, INSOMNIA, GASTROINTESTINAL DISTURBANCES, TREMOR, GINGIVITIS

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

First Aid:INHALATION: REMOVE TO FRESH AIR. RESTORE AND/OR SUPPORT

BREATHING AS NEEDED. ADMINISTER OXYGEN FOR CHEMICAL PNEUMONITIS. SEEK MEDICAL ATTENTION. EYE CONTACT: FLUSH WITH RUNNING WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREAS WITH SOAP AND WATER. INGESTION: SEEK MEDICAL ATTENTION.

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:SELECT MEDIA FOR SURROUNDING FIRE.

Fire Fighting Procedures:SELF-CONTAINED BREATHING

APPARATUS SHOULD BE  
USED IF METAL IS EXPOSED TO HEAT.

Unusual Fire/Explosion Hazard:NON-FLAMMABLE. MOVE CONTAINERS FROM FIRE  
AREA IF IT CAN BE DONE WITHOUT RISK.

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

Spill Release Procedures:IF A SWITCH IS BROKEN, NOTIFY SAFETY  
PERSONNEL. PROVIDE ADEQUATE VENTILATION. CLEAN UP SPILL PROMPTLY. A  
SUCTION BOTTLE WITH CAPILLARY TUBE CAN BE USED FOR SMALL AMOUNTS.  
CALCIUM POLYSULFIDE WITH EXCESS SULFUR CAN BE SPRI  
NKLED ON THE  
MERCURY TO CONVERT IT TO MERCURY SULFIDE. COLLECT ALL PARTS OF  
BROKEN SWITCH IN SEALED CONTAINER. PREVENT SKIN CONTACT.  
Neutralizing Agent:CALCIUM POLYSULFIDE WITH EXCESS SULFUR

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

Handling and Storage Precautions:SWITCHES MUST BE CUSHIONED FROM  
PHYSICAL DAMAGE.  
Other Precautions:KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:NIO  
SH-APPROVED FULL FACE PIECE GAS MASK EQUIPPED  
WITH HIGH EFFICIENCY FILTER PLUS CANISTER CONTAINING  
IODINE-IMPREGNATED CHARCOAL.  
Ventilation:GENERAL OR LOCAL EXHAUST ADEQUATE TO MEET TLV.  
Protective Gloves:RUBBER GLOVES WHILE CLEANING UP BROKEN SWITCH.  
Eye Protection:SAFETY GLASSES WHEN CLEANING UP BROKEN SWITCH.  
Other Protective Equipment:EYE BATH, WASHING FACILITY, LAB COAT OR  
UNIFORM.  
Work Hygienic Practices:AVOID EYE CONTACT. OBSERVE GOOD INDUSTRIAL  
HYGIENE PRACTICES AND RECO  
MMENDED PROCEDURES. WASH AFTER HANDLING  
AND BEFORE EATING, DRINKING OR SMOKING.  
Supplemental Safety and Health

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

HCC:Z2  
Boiling Pt:=354.4C, 670.F  
Vapor Pres:68F=0.0012, 260F=1.0 MMHG  
Vapor Density:DEPENDS  
Spec Gravity:(H2O=1) 13.55  
Evaporation Rate & Reference:(ETHYL ETHER=1) N.D.  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:GLASS ENCLOSED MERCURY SWITCH (SILVERY WHITE, HEAVY  
LIQUID METAL)  
Percent Volatiles by

Volume:N.A.

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

Stability Indicator/Materials to Avoid:YES

ACETYLENES, AMMONIA, ALKALI METAL, CHLORINE DIOXIDE, METHYL AZIDE.

Stability Condition to Avoid:BREAKAGE

Hazardous Decomposition Products:INORGANIC MERCURY VAPORS

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

Waste Disposal Methods:DO NOT DISCHARGE MERCURY DOWN DRAIN. DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.

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