

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:87113-2227

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 Ingredie

nts =====

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 SUPPO  
RT  
BREATHING AS NEEDED. ADMINISTER OXYGEN FOR CHEMICAL PNEUMONITIS.  
SEEK MEDICAL ATTENTION. EYE CONTACT: FLUSH WITH RUNNING WATER FOR  
15 MINUTES. H OLD 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 EXCE SS SULFUR CAN BE SPRIN

KLED 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:NIOS

H-APPROVED FULL FACE PIECE GAS MASK EQUIPPED

WITH HIGH EFFIFCIENCY 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 RECOM

MENDED 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  
REG  
ULATIONS.

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