

HUGHES AIRCRAFT CO, ELECTRO-OPTICAL SYSTEMS -- HELIUM (USED IN THE DETECTOR, COOLER ASSEMBLY) -- 1240-01-273-6038

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Product Identification
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Product ID:HELIUM (USED IN THE DETECTOR, COOLER ASSEMBLY)

MSDS Date:06/26/1997

FSC:1240

NIIN:01-273-6038

MSDS Number: CDYHT

=== Responsible Party ===

Company Name:HUGHES AIRCRAFT CO, ELECTRO-OPTICAL SYSTEMS

Address:2000E EL SEGUNDO BLVD

City:EL-SEGUN

DO

State:CA

ZIP:90245

Country:US

Info Phone Num:310-616-1375

Emergency Phone Num:310-616-1375

Preparer's Name:HMIS-VBA

CAGE:3U331

=== Contractor Identification ===

Company Name:HUGHES AIRCRAFT CO

Address:2000 EAST EL SEGUNDO BLVD

Box:City:EL SEGUNDO

State:CA

ZIP:90245

Country:US

Phone:310-616-6095;310-616-3393

CAGE:3U331

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Composition/Information on Ingredients
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Ingred Name:HELIUM

CAS:7440-59-7

RTECS #:MH6520000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:HELIUM IS A SIMPLE ASPHYXIAN.

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

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

Health Hazards Acute and Chronic:HELIUM IS NON-TOXIC, ODORLESS, COLORLESS, NON-FLAMMABLE GAS. IT CAN CAUSE RAPID SUFFOCATION WHEN CONCENTRATIONS ARE SUFFICIENT TO REDUCT OXYGEN LEVELS TO BELOW 19.5%. IT IS LIGHTER THAN AIR & MAY COLL ECT IN HIGH POINTS OR

ALONG CIELINGS. SCBA MAY BE REQUIRED BY RESCUE WORKERS.

Explanation of Carcinogenicity:HELIUM IN NOT LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY NTP, IARC OR OSHA SUBPART Z.

Effects of Overexposure:EYE:NO ADVERSE EFFECT. SKIN:NO ADVERSE EFFECT. INHALATION: NON-TOXIC. MAY CAUSE SUFFOCATION. MAY CAUSE DIZZINESS, NAUSEA, VOMITING, EXCESSIVE SALVATION, DIMINISHED MENTAL ALERTNESS, LOSS OF CONSCIOUS NESS, DEATH.

Medical Cond Aggravated by Exposure:NONE KNOWN.

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

First Aid:EYE/SKIN CONTACT:NOT APPLICABLE. INHALATION"PERSONS SUFFERING FROM LACK OF OXYGEN SHOULD BE MOVED TO FRESH AIR. AID OR RESTORE BREATHING AS NEEDED. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point:NON-FLAMMABLE

Autoignition Temp:Autoignition Temp Text:NONE

Lower Limits:NONE

Upper Limits:NONE

Extinguishing Media:HELIUM IS NON-FLAMMABLE & DOES NOT SUPPORT CO

MBUSTION. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:HELIUM IS A SIMPLE ASPHYXIAN. IF POSSIBLE REMOVE HELIUM CYLINDERS FROM FIRE AREA OR COOL W/WATER. SELF-CONTAINED BREATHING APPARATUSMAY BE REQUIRED FOR RESCUE.

Unusual Fire/Explosion Hazard:CYLINDER MAY VENT RAPIDLY OR RUPTURE VIOLENTLY. MOST CYLINDERS ARE DESIGNED TO VENT AT ELEVATED TEMPERATURES. CYLINDER MAY RUPTURE IF RELIEF VALVE FAILS.

===== Accidental Release Me

asures =====

Spill Release Procedures:EVACUATE ALL PERSONNEL. INCREASE VENTILATION & MONITOR OXYGEN LEVEL. USE SELF-CONTAINED BREATHING APPARATUS. IF LEAK IS FROM CONTAINER OR ITS VALVE, CLOSE CYLINDER & VENT.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE CYLINDERS UPRIGHT IN A WELL VENTILATED, SECURE AREA PROTECTED FROM WEATHER. KEEP TEMPERATURE