

HUGHES AIRCRAFT CO RADAR SYSTEMS GROUP -- THERMAL RECEIVER UNIT,12599972,PART A  
-- 1240-01-293-9706

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

Product ID:THERMAL RECEIVER UNIT,12599972,PART A

MSDS Date:12/04/1992

FSC:1240

NIIN:01-293-9706

Kit Part:Y

MSDS Number: CCCGZ

=== Responsible Party ===

Company Name:HUGHES AIRCRAFT CO RADAR SYSTEMS GROUP

Address:BLDG C1 MS A142

Box:92426

City:LOS ANGELES

State:CA

ZIP:90009

Country:US

Info Phone Num:213-568-7200 / FAX 213-568-6942

Emergency Phone Num:213-568-7200

Preparer's Name:D. L. COLLINS

CAGE:82577

=== Contractor Identification ===

Company Name:AIRCO INC, AIRCO INDUSTRIAL GASES DIV.

Address:575 MOUNTAIN AVE

Box:City:MURRAY HILL

State:NJ

ZIP:07974-2006

Country:US

Phone:800-424-9300(CHEMTREC)

CAGE:00741

Company Name:HUGHES AIRCRAFT CO RADAR SYSTEMS GROUP

Address:BLDG C1 MS A142

Box:92426

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State:CA

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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

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Hazards Identification  
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LD50 LC50 Mixture:NOT RELEVANT  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:LUNG, BRAIN. ACUTE-  
EYES/SKIN:NO EVIDENCE OF ADVER  
SE EFFECTS FROM AVAILABLE  
INFORMATION. INHALATION:ASPHYXIAN. MODERATE CONCENTRATIONS MAY  
CAUSE HEADACHE, DROWSINESS, DIZZINESS, EXCESS SALIVATION, NAUSEA,  
VOMITING, UNCONSCIOUSNESS, DEATH. INGESTION:UNLIKELY. THIS PRODUCT  
IS A GAS. CHRONIC- NONE.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:HEADACHE, DROWSINESS, DIZZINESS, EXCESS  
SALIVATION, NAUSEA, VOMITING, UNCONSCIOUSNESS, DEATH  
Medical Cond Aggravated by Exposure:NONE EXPECTED

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Fi  
rst Aid Measures  
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First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH  
AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER. SKIN:WASH  
WITH SOAP & WATER. ORAL:UNLIKELY.

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Fire Fighting Measures  
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Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL FOR SURROUNDING FIRE. HELIUM CANNOT CATCH FIRE.  
Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED  
SELF-C

CONTAINED BREATHING APPARATUS. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY. MOVE CONTAINERS AWAY FROM FIRE.  
Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. THIS GAS IS NON-FLAMMABLE.

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

Spill Release Procedures:WEAR RESPIRATORY PROTECTION. STOP LEAK IF POSSIBLE. VENTILATE AREA OR MOVE LEAKING CONTAINER OUTSIDE OR TO A WELL-VENTILATED PLACE. TEST AREA, ESPECIALLY CONFINED AREA, FOR SUFFICIENT OXYGEN CONTENT PRIOR TO PERMITTING RE-ENTRY OF PERSONNEL.  
Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, DRY AREA BELOW 125F (52C). KEEP OUT OF REACH OF CHILDREN.  
Other Precautions:NEVER WORK ON A PRESSURIZED SYSTEM. READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS.

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO AN ACCEPTABLE LEVEL, WEAR A NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR AIR-SUPPLIED RESPIRATOR. ASSURE COMPLIANCE WITH OSHA STANDARD 29 CFR 1910.134.  
Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.  
Protective Gloves:LEATHER RECOMMENDED  
Eye Protection:SAFETY GLASSES RECOMMENDED  
Other Protective Equipment:SAFETY SHOES RECOMMENDED  
Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING OR DRINKING.  
Supplemental Safety and Health  
KEY1:G3. THIS KIT HAS HELIUM (PNI A) AND RADIOACTIVE MATERIAL (PNI B), SAME NSN.

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

HCC:A2  
NRC/State Lic Num:NOT RELEVANT  
Boiling Pt:B.P. Text:-452F,-269C  
Melt/Freeze Pt:M.P/F.P Text:-457F,-272C  
Vapor Pres:GAS  
Vapor Density:0.14  
Spec Gravity:GAS  
Viscosity:NOT RELEVANT  
Evaporation Rate & Reference:NOT RELEVANT (GAS)  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:COLOR

LESS GAS - ODORLESS  
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid: YES  
NONE. HELIUM IS CHEMICALLY INERT.  
Stability Condition to Avoid: EXCESSIVE HEAT (TEMPERATURES ABOVE  
125F/52C)  
Hazardous Decomposition Products: NONE

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

Waste Disposal Methods: SLOWLY RELEASE INTO THE ATMOSPHERE. DISCARD ANY  
PRODUCT, RESIDUE, DISPOSABLE CONTAINER  
OR LINER IN AN  
ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH LOCAL,  
STATE AND FEDERAL REGULATIONS.

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