

PRAXAIR INC -- HELIUM -- 6830-00-660-0026

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

Product ID:HELIUM

MSDS Date:10/01/1992

FSC:6830

NIIN:00-660-0026

MSDS Number: BXTHS

=== Responsible Party ===

Company Name:PRAXAIR INC

Address:39 OLD RIDGEBURY RD

City:DANBURY

State:CT

ZIP:06810-5113

Country:US

Info Phone Num:203-794-5782

Emergency Phone Num:203-794-5782/800-424-9300(CHEMTREC)

CAGE:0LV01

=== Contractor I

dentification ===

Company Name:PRAXAIR, INC.

Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

State:CT

ZIP:06810-5113

Country:US

Phone:800-772-9247; 800-PRAXAIR

CAGE:0LV01

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

Ingred Name:HELIUM

CAS:7440-59-7

RTECS #:MH6520000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NOT RELEVANT

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

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

Health Hazards Acute and Chronic:TARGET ORGANS:LUNG, BRAIN. ACUTE-
EYES/SKIN:NO EVIDENCE OF ADVERSE EFFECTS FROM AVAILABLE
INFORMATION. INHALATION:ASPHYXIANT. 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, DROWSINES
S, DIZZINESS, EXCESS

SALIVATION, NAUSEA, VOMITING, UNCONSCIOUSNESS, DEATH

Medical Cond Aggravated by Exposure:NONE EXPECTED

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First 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 DIOXID
E, FOAM, OR DRY

CHEMICAL FOR SURROUNDING FIRE. HELIUM CANNOT CATCH FIRE.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED
SELF-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.

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Accidental Release Measures
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Spill Release Procedures:WEAR RESPIRATORY PROTECTION. STO
P 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 P RIOR TO PERMITTING RE-ENTRY OF
PERSONNEL.

Neutralizing Agent:NOT RELEVANT

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Handling and Storage
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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 A

ND

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 APPARATUR 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 RECOMME NDED (HANDLING CYLINDERS)

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

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

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:-452F,-269C

Melt/Freeze Pt:M.P/F.P Text:-458F,-272C

Vapor Pres:GAS

Vapor Density:0.138

Spec Gravity:GAS

Viscosity:NOT RELEVANT

Evaporation Rat

e & Reference:NOT RELEVANT (GAS)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS 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 ATOMOSPHERE. 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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