Product ID: 0-99% HELIUM
MSDS Date: 07/20/1995
FSC: 6830
NIIN: 00F048312
MSDS Number: BZ5B

Responsible Party
Company Name: SPECTRA GASES INC
Address: 277 COIT ST
City: IRVINGTON
State: NJ
ZIP: 07111-5000
Country: US
Info Phone Num: 201-372-2060/202-484-7616
Emergency Phone Num: 201-372-2060/201-483-0257
CAGE: 0BZ5

Contractor Identification
Company Name: SPECTRA GASES INC
Address: 277 COIT ST
Box: City: IRVINGTON
State: NJ
ZIP: 07111-5000
Country: US
Phone: 201-372-2060/202-484-7616
CAGE: 0BZ5

Composition/Information on Ingredients

Ingredient: HELIUM
CAS: 7440-59-7
RTECS #: MH6520000
Fraction by Wt: 0-99%
ACGIH TLV: SIMPLE ASPHYXIANT

Hazards Identification

Routes of Entry: Inhalation: YES Skin: NO Ingestion: NO
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO
Health Hazards Acute and Chronic: HYDROGEN CHLORIDE SKIN: MAY CAUSE MILD IRRITATION TO SEVERE ACID BURNS & POSSIBLE TISSUE DESTRUCTION. EYES: CAN CAUSE SEVERE BURNS & POSSIBLE BLINDNESS. INHALATION: CAN CAUSE SEVERE IRRITATION OF THE LUNGS & NASAL PASSAGES. INFLAMMATION & ABNORMAL FLUID BUILD UP IN THE LUNGS WHICH MAY BE FATAL.
Explanations of Carcinogenicity: NONE
Effects of Overexposure: HYDROGEN CHLORIDE: IRRITATION, BURNS, PAIN, REDNESS, SWELLING, BLINDNESS, COUGHING, DIFFICULTY BREATHING, INFLAMMATION.
Medical Condition Aggravated by Exposure: PULMONARY DISEASES.

First Aid Measures

First Aid: SKIN: TREAT SYMPTOMATICALLY. FLUSH W/LARGE AMOUNTS OF WATER FOR 15 MINS. IF BURNS COVER A LARGE PART OF BODY PUT VICTIM UNDER A
SHOWER & REMOVE CLOTHING. WASH W/SOAP THEN RINSE THOROUGHLY. EYES: WASH W/LARGE AMOUNTS OF WATER FOR 15 MINS. USE ANESTHETIC DROPS AFTER WASHING/FLUSHING. INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED. KEEP WARM & QUIET. OBTAIN MEDICAL ATTENTION IN ALL CASES.

------------------- Fire Fighting Measures -------------------

Flash Point: NONFLAMMABLE
Extinquishing Media: USE EXTINGUISHING MEDIA FOR SURROUNDING FIRE/WATERSPRAY.
Fire Fighting Procedures: USE SCBA & CHEMICAL RESISTANT SUITS. EVACUATE AREA & FIGHT FIRE FROM A DISTANCE. REMOVE CYLINDERS FROM FIRE AREA & COOL W/A WATER SPRAY.
Unusual Fire/Explosion Hazard: THE HYDROCHLORIC ACID FORMED WHEN HYDROGEN CHLORIDE & WATER MIX MAY REACT W/METALS TO LIBERATE FLAMMABLE HYDROGEN GAS.

------------------- Accidental Release Measures -------------------

Spill Release Procedures: DON'T TRY TO REPAIR LEAKY SYSTEMS UNTIL RESIDUAL MIXTURE IS PURGED, REDUCE PRESSURE BEFORE REPAIRING. EVACUATE AREA. AVOID FLUSHING CONTAMINATED WATER INTO SEWER SYSTEM. FLUSH AREA, NEUTRALIZE W/SODA ASH/LIMESTONE, DILUTE W/LARGE AMOUNTS OF WATER.
Neutralizing Agent: SODA ASH/LIMESTONE

------------------- Handling and Storage -------------------

Handling and Storage Precautions: STORE MIXTURE NO LONGER THAN 1 YEAR.
STORE CYLINDERS SEPARATELY FROM COMBUSTIBLES/EXPLOSIVE MATERIALS.
STORE EMPTY CYLINDERS SEPARATELY FROM FULL.
Other Precautions: STORE CYLINDERS UPRIGHT IN A COOL, DRY WELL AREA FROM HEAT, TEMPS >125F. CYLINDER PLUGS & CAPS MUST BE PLACED WHEN NOT IN USE. DON'T SLIDE, DRAG, ROLL/KNOCK CYLINDERS AGAINST SHARP OBJECTS.
USE A HAND CYLINDER HAND TRUCK WHEN TRANSPORTING.

------------------- Exposure Controls/Personal Protection -------------------

Respiratory Protection: OSHA RECOMMENDS AN INWARD FACE VELOCITY FOR THESE ENCLOSURES BE 200 FT/MIN OF AIR.
Ventilation: FANS, FUME HOODS, EXHAUST VENTS TO REDUCE EXPOSURE LEVEL TO BELOW THE TWA LIMITS.
Protective Gloves: NEOPRENE/BUTYL/POLY VINYL/LEATHER
Eye Protection: CHEMICAL RESISTANT SAFETY GLASSES
Other Protective Equipment: FACE SHIELDS, SAFETY SHOES (STEEL TOE/EQUIVALENT), PROTECTIVE CLOTHING, EYEWASH STATIONS & SAFETY SHOWERS.

Supplemental Safety and Health

------------------- Physical/Chemical Properties -------------------

Boiling Pt: B.P. Text: -452.02F
Appearance and Odor: COLORLESS GAS W/A SHARP IRRITATING ODOR

------------------- Stability and Reactivity Data -------------------
Stability Indicator/Materials to Avoid: YES
FLUORINE/CAUCIUM CARBIDE/CESIUM/CESIUM CARBIDE/LITHIUM
SILICIDE/MAGNESIUM BORATE/MERCURIC SULFATE/RUBIDIUM CARBIDE. (SUPP
Stability Condition to Avoid: HEAT, TEMPS >125F, MOISTURE.
Hazardous Decomposition Products: THERMAL: HYDROGEN, CHLORINE

Waste Disposal Methods: SMALL QUANTITIES OF MIXTURE MAY BE DISPOSED OF
SLOWLY BY VENTING THROUGH A SOLID ACTIVATED CHARCOAL/SODA LIME
SCRUBBER. DON'T DISPOSE OF UNUSED PRODUCT. PLEASE RETURN UNUSED
PORTIONS TO: SPECTRA GASES INC., 80 INDUSTRIAL DR., ALPHA, NJ 08865.

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