SPECTRA GASES INC -- 5% FLUORINE BAL HELIUM -- 6830-00F045875

Product ID: 5% FLUORINE BAL HELIUM
MSDS Date: 06/04/1992
FSC: 6830
NIN: 00F045875
MSDS Number: BYMGB

--- 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: OBZR5

--- Contractor Identification ---
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--------- Composition/Information on Ingredients ---------

Ingred Name: FLUORINE
CAS: 7782-41-4
RTECS #: LM6475000
Fraction by Wt: 5%
Other REC Limits: 1 PPM
OSHA PEL: 0.2 MG/CUM
ACGIH TLV: 1.6 MG/CUM
EPA Rpt Qty: 10 LBS
DOT Rpt Qty: 10 LBS

Ingred Name: HELIUM
CAS: 7440-59-7
RTECS #: MH6520000
Fraction by Wt: 95%
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: FLUORINE-SKIN: IRRITATION, ACID-LIKE BURNS, TISSUE DESTRUCTION. EYES: ACID-LIKE BURNS. INHALATION: IRRITATION OF LUNGS/ NASAL PASSAGES, ACID-LIKE BURNS TO MUCOUS MEMBRANES OF LUNGS & NOSE, ABNORMAL FLUID BUILD UP IN LUNGS WHICH MAY BE FATAL. HIGHLY CORROSIVE TO LIVING TISSUE. CONCENTRATIONS >25 PPM MAY BE FATAL (SUPP)
Explaination of Carcinogenicity:
NONE
Effects of Overexposure:
IRRITATION, BURNS, SEVERE PAIN, REDNESS, SWELLING, EXCESSIVE TEARING, POSSIBLE BLINDNESS, COUGHING, DIFFICULTY BREATHING, ABNORMAL FLUID FORMATION IN NOSE/MOUTH/THROAT, DEEP INFLAMMATION.
Medical Cond Aggravated by Exposure:
PULMONARY DISEASES.

First Aid Measures

First Aid: SKIN: FLUSH W/WATER FOR 15 MINS. DON'T USE ANY TYPE OF OILS/GREASES. EYES: IMMEDIATELY FLUSH W/WATER FOR 15 MINS. APPLY ANESTHETIC EYE DROPS AFTER AN INITIAL 2 MIN WASH. DON'T USE ANY TYPE OF OILS/GREASES. INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED. KEEP WARM & QUIET. KEEP AIRWAY CLEAR. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Fire Fighting Measures

Flash Point: NONFLAMMABLE
Extinguishing Media: USE MEDIA APPROPRIATE FOR INITIAL CAUSE OF FIRE.
Fire Fighting Procedures: WEAR SCBA & CHEMICAL RESISTANT SUITS. EVACUATE AREA & FIGHT FROM SAFE DISTANCE. REMOVE CYLINDERS FROM AREA IF NOT LEAKING/COOL W/WATER SPRAY.
Unusual Fire/Explosion Hazard: PRODUCT HAS OXIDIZING PROPERTIES SIMILAR TO THAT OF AIR & WILL SUPPORT & ACCELERATE COMBUSTION. WATER & FLUORINE REACT TO PRODUCE HYDROFLUORIC ACID.

Accidental Release Measures

Spill Release Procedures: EVACUATE AREA. WEAR SCBA & CHEMICAL RESISTANT SUIT. SAFELY STOP LEAK. IF NOT POSSIBLE, PROVIDE FORCED VENTILATION (FANS, FUME HOODS, EXHAUST VENTS) & REMOVE LEAKING CYLINDER TO OUTDOORS AWAY FROM PERS ONNEL & POPULATED AREAS.

Handling and Storage

Handling and Storage Precautions: STORE <1 YR. STORE SEPARATELY FROM OXIDIZERS/FLAMMABLE/IGNITION SOURCES. STORE UPRIGHT IN COOL, DRY, WELL VENTILATED AREA. DON'T WEAR CONTACT LENSES.
Other Precautions: STORE CYLINDERS AWAY FROM HEAVILY TRAFFICKED AREAS. DON'T BLOCK EMERGENCY EXITS. CYLINDER PLUGS & CAPS SHOULD BE IN PLACE WHEN NOT IN USE. DON'T SLIDE, DRAG, ROLL, KNOCK CYLINDERS AGAINST SHARP OBJECTS. ALWAYS USE CYLINDER HAND TRUCK.

Exposure Controls/Personal Protection

Respiratory Protection: WEAR A SELF-CONTAINED BREATHING APPARATUS.
Ventilation: FANS, FUME HOODS, EXHAUST VENTS IF NECESSARY.
Protective Gloves: NEOPRENE/LEATHER
Eye Protection: SAFETY GLASSES/FACE SHIELDS
Other Protective Equipment: CHEMICAL RESISTANT APRONS, NEOPRENE SUIT, STANDARD LEATHER SAFETY SHOES, EYEWASH STATIONS, SAFETY SHOWERS
Work Hygienic Practices: REMOVE/ LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health
HEALTH HAZARDS: EXTENDED LOW LEVEL ABSORPTION OF FLUORINE MAY CAUSE FLUOROSIS, AN ABNORMAL CALCIUM ACCUMULATION IN BONES. WASTE
DISPOSAL: DON'T DISPOSE OF UNUSED PRODUCT. RETURN UNUSED PORTIONS TO SPE CT RA GASES. DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS. MSDS INFORMATION IS FOR FLUORINE.

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

Boiling Pt/B. P. Text: -306.58 F
Appearance and Odor: COLORLESS GAS W/A SHARP IRRITATING ODOR.

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

Stability Indicator/Materials to Avoid: YES
FLAMMABLES, OXYGEN, WATER/VAPOR, OXIDIZING/REDUCING AGENTS, METALS,
MOST ORGANIC/INORGANIC MATERIALS, COMBUSTIBLES.
Stability Condition to Avoid: DIRECT SUNLIGHT/HEAT, MOISTURE.
Hazardous Decomposition Products: HYDROGEN FLUORIDE, OXYGEN DIFLUORIDE,
OZONE, CO.

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

Waste Disposal Methods: SMALL: DISPOSE OF BY SLOWLY VENTING THROUGH
EITHER A SOLID/LIQUID, CAUSTIC SCRUBBER. SODA LIME IS PREFERRED
SOLID SCRUBBING MEDIA. DON'T USE ACTIVATED CHARCOAL/CARBON. LARGE:
POTASSIUM HYDROXIDE SOLUT ION IS PREFERRED LIQUID SCRUBBING MEDIA.
(SUPP)

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