MATHESON GAS PRODUCTS -- FLUORINE, MAT09920 -- 6810-00N074684

Product Identification

Product ID: FLUORINE, MAT09920
MSDS Date: 02/18/1995
FSC: 6810
NIIN: 00N074684
MSDS Number: CDWVS

== Responsible Party ==
Company Name: MATHESON GAS PRODUCTS
Address: 30 SEAVIEW DR
City: SECAUCUS
State: NJ
ZIP: 07096
Country: US
Info Phone Num: 201-867-4100
Emergency Phone Num: 800-424-9300 (CHEMTRE
CAGE: ONPS5

== Contractor Identification ==
Company Name: MATHESON GAS PRODUCTS INC
Address: 30 SEAVIEW DR
Box: 1587
City: SECAUCUS
State: NJ
ZIP: 07094-1882
Country: US
Phone: 800-424-9300 (CHEMTREC)
CAGE: ONPS5

Composition/Information on Ingredients

Ingred Name: FLUORINE (SARA 302) (CERCLA)
CAS: 7782-41-4
RTECS #: LM6475000
Fraction by Wt. 100%
OSHA FEL: 0.1 PPM
ACGIH TLV: 1 PPM/2 STEL
EPA Rpt Qty: 10 LBS
DOT Rpt Qty: 10 LBS

Ingred Name: SUP DAT: BE STOPPED. USE AGENT FOR TYPE OF FIRE. COOL CONTORS W/FLOODING WATER, APPLY FROM FAR DIST. AVOID BRTHG (ING 3)
RTECS #: 9999999ZZ

Ingred Name: ING 2: TOX & CORR VAPS, KEEP UPWIND. CONSIDER EVACUATION OF DOWNWIND AREA.
RTECS #: 9999999ZZ

Ingred Name: EXPLO HAZ: COMBUST MATLS. MAY RSLT IN IGNIT, VIOLENT COMBUST/EXPLO. CONTR MAY EXPLODE IN HEAT OF FIRE.
RTECS #: 9999999ZZ

Ingred Name: CNNDTN TO AVOID: CONT W/ICE. COMBUST MATLS (WOOD, PAPER, OIL, ETC); AVOID INHAL OF VAPS/CONT W/SKIN. DO NOT (ING 6)
RTECS #: 9999999ZZ
Ingred Name:ING 5: CONTAMINATE WATER SOURCES.
RTECS #:9999999ZZ

Ingred Name:ING 7: CLONIC CONVLS, & RESP & CARD FAILURE. DEATH DUE TO
RESP DMG. LIVER & KIDNEY DMG. TESTICULAR DEGENERATION (ING 9)
RTECS #:9999999ZZ

Ingred Name:ING 8: IN RATS. CHRONIC: NOSEBLEEDS & SINUS TROUBLE.
FLUOROSIS. WT LOSS, BRITTLENESS OF BONES, ANEMIA, WEAK, (ING 10)
RTECS #:9999999ZZ

Ingred Name:ING 9: GEN ILL HLTH, STIFFNESS OF JOINTS & DISCOLORATION OF
TEETH. SLIGHT EPTS IN LUNGS, LIVER & KIDNEYS. SKIN: (ING 11)
RTECS #:9999999ZZ

Ingred Name:ING 10: ACUTE: SEV BURNS & ULCERATIONS. MAY BE ABSORBED
THRU SKIN & CAUSE SYSTEMIC TOXICITY. EYE: ACUTE: SEV (ING 12)
RTECS #:9999999ZZ

Ingred Name:ING 11: IRRIT. CORNEAL & CONJUNCTIVAL BURNS, POSSIBLE
BLINDNESS. CHRONIC: CONJ EPTS AS IN ACUTE EXPOS. (ING 13)
RTECS #:9999999ZZ

Ingred Name:ING 12: CONTACT NEHC FOR MORE SPECIFIC TOXICOLOGICAL
INFORMATION.
RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC: 20% GRYCERIN. DO NOT USE OILY OINTMENTS.
OPEN ALL BLISTERS/APPLY 2.5% CALCIUM GLUCONATE GEL. (ING 15)
RTECS #:9999999ZZ

Ingred Name:ING 14: GET MED ATTN IMMED. EYES: WASH IMMED W/LGE AMTS OF
WATER, OCCAS LIFTING UPPER & LOWER LIDS, UNTIL NO (ING 16)
RTECS #:9999999ZZ

Ingred Name:ING 15: EVIDENCE OF CHEM REMAINS (AT LEAST 15-20 MIN).
CONTINUE IRRIGATING W/NORM SALINE UNTIL PH HAS RETURNED (ING 17)
RTECS #:9999999ZZ

Ingred Name:ING 16: TO NORM (30-60 MIN). COVER W/STERILE BANDAGES. GET
MED ATTN IMMED. INGEST: CALL MD IMMED.
RTECS #:9999999ZZ

----------------------- Hazards Identification -----------------------

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHAL: DEATH. BURNS. CHILLS,
FEVER, CHEST PAIN, BLUSH SKIN COLOR, LUNG CONGESTION, LIVER &
KIDNEY DMG, CONVLS & HEART FAILURE. SKIN: BURNS. EYE: IRRIT, FOSS
SEV, BLINDNESS. CHRONIC: INHAL: MAY CAUSE EPTS AS IN SHORT TERM
EXPOS. TOOTH DISCOLORATION. SKIN/EYE: SAME EPTS AS SHORT TERM
EXPOS. (EFTS OF OVEREXP)
Explanation of Carcinogenicity: NOT RELEVANT.
Effects of Overexposure: HLTH HAZ: TOX INFO: HIGHLY TOX BY INHAL. TARGET EFTS: POIS RESP SYS, LIVER & KIDNEYS. ACUTE: INHAL: EXTREMELY IRRIT. REPORTED TO BE FATAL IN MAN. SORE THROAT & CHEST PAIN, COUGHING, CHOKING & CHILLS. FEVER, COUGH, TIGHTNESS IN CHEST, RALES & CYANOSIS, PULM EDEMA. ASPHYXIA, LARYNGEAL & BRONCHIOLE SPASMS, (ING 7)
Medical Cond Aggravated by Exposure: IMPAIRED RESPIRATORY FUNCTION.

------------------------ First Aid Measures ------------------------
First Aid: INHAL: REMOVE TO FRESH AIR IMMEDIATELY. PERFORM ARTIFICIAL RESPIRATION IF NECESSARY. MAINTAIN AIRWAY, BLOOD PRESSURE & RESPIRATION. KEEP WARM & AT REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY. QUALIFIED MEDICAL PROFESSIONALS SHOULD CONSIDER ADMINISTRATION OF OXYGEN. SKIN: WASH THOROUGHLY UNDER A FINE STREAM OF WATER FOR 15-60 MIN. DO NOT WAIT UNTIL SYMPTOMS APPEAR BEFORE GIVING TREATMENT. COAT BURN W/MAGNESIUM OXIDE-WATER PASTE CONTAINING (ING 14)

------------------------ Fire Fighting Measures ------------------------
Extinguishing Media: WATER ONLY, NO DRY CHEMICAL, CARBON DIOXIDE OR HALON.
Fire Fighting Procedures: WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT. MOVE CONTRAINT FROM FIRE AREA IF W/OUT RISK. APPLY COOLING WATER TO SIDES OF CONTRAINTS UNTIL WELL AFTER FIRE (SUPP DAT)
Unusual Fire/Explosion Hazard: OXIDIZERS DECOMPOSE, ESP WHEN HEATED, TO YIELD OXYGEN/OTHER GASES WHICH WILL INCREASE BURNING RATE OF COMBUSTIBLE MATTER. CONTAIN W/EASILY OXIDIZABLE, ORG/OTHER (ING 4)

------------------------ Accidental Release Measures ------------------------
Spill Release Procedures: STOP LEAK IF WITHOUT RISK. KEEP COMBUSTIBLES AWAY. KEEP UNNECESSARY PEOPLE AWAY; ISOLATE AREA AND DENY ENTRY UNTIL GAS HAS DISPERSED. VENTILATE CLOSED SPACES BEFORE ENTERING. REPORTABLE QUANTITY (RQ): 10 POUNDS.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

------------------------ Handling and Storage ------------------------
Handling and Storage Precautions: OBSERVE ALL FED, STATE & LOCAL REGULATIONS WHEN STORING THIS SUBSTANCE. STORE AWAY FROM INCOMPATIBLE SUBSTANCES. PROTECT AGAINST PHYSICAL DAMAGE.
Other Precautions: ISOLATE FROM OTHER SOURCES, ELP MATERIALS WITH WHICH FLUORINE IS KNOWN TO REACT. KEEP AWAY FROM SOURCES OF HEAT & IGNITION (NFPA 49, HAZ CHEMMS DATA, 1975). FOR MORE SPECIFIC INFORMATION CONTACT NEHC.

------------------------ Exposure Controls/Personal Protection ------------------------
Respiratory Protection: USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN. FOR MORE SPECIFIC INFORMATION CONTACT NEHC.
Ventilation: PROCESS ENCLOSURE RECOMMENDED TO MEET PUBLISHED EXPOSURE LIMITS.
Protective Gloves: IMPERVIOUS GLOVES
Eye Protection: ANSI APPROVED CHEM WORKERS GOGG (SUPP DAT)
Other Protective Equipment: ANSI APPROVED EMERGENCY EYEWASH & DELUGE SHOWER. PROTECTIVE (IMPERVIOUS) CLOTHING & EQUIPMENT.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EYE PROT: & FULL LENGTH FSHLDS. FIRE FIGHT PROC: IS OUT. STAY AWAY FROM ENDS OF TANKS. FOR MASSIVE FIRE IN CARGO AREA, USE UNAMMED HOSE HOLDER/MONITOR NOZZ; IF IMPOSS, WITHDRAW FROM AREA & LET FIRE BURN. SML FIRES: CONTAIN & LET BURN; IF FIRE MUST BE FOUGHT, WATER SPRAY/FOG IS REC. EXTING ONLY IF FLOW CAN (ING 2)

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

Boiling Pt: B.P. Text: -306°F, -188°C
Vapor Press: 760
Vapor Density: 1.7
Spec Gravity: 1.3
Solubility in Water: REACTS
Appearance and Odor: PALE YELLOW GAS WITH A PUNGENT ODOR

------------------------ Stability and Reactivity Data ------------------------

Stability Indicator/Materials to Avoid: YES
ALKOHOLES, ALDEHYDES, COMBUST MATHS, METALS, STAINLESS STEEL. FOR COMPLETE LIST OF MATLS TO AVOID CONT NEHC.
Stability Condition to Avoid: REACT W/WATER/STEAM TO PROCE TOX & CORR FUMES OF HYDROGEN FLUORIDE. LIQ FLUORINE MAY REACT VIOLENTLY/EXPLO ON (ING 5)

Hazardous Decomposition Products: MAY RELEASE TOXIC AND/OR HAZARDOUS GASES.

------------------------ Disposal Considerations ------------------------

Waste Disposal Methods: OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN DISPOSING OF THIS SUBSTANCE. DISPOSAL MUST BE IN ACCORDANCE WITH STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE, 40 CFR 262. EPA HAZARDOUS WAST NUMBER P056.

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Product ID: KRYPTON
MSDS Date: 01/01/1985
FSC: 6830
NIIN: 01-099-6296
MSDS Number: BGLTK

Responsable Party
Company Name: AIRCO INC AIRCO INDUSTRIAL GASES DIV
Address: 575 MOUNTAIN AVENUE
City: NEW PROVIDENCE
State: NJ
ZIP: 07974-2006
Country: US
Info Phone Num: 908-464-8100
Emergency Phone Num: 908-464-8100
CAGE: 83956

Contractor Identification
Company Name: AIRCO INC AIRCO WELDING PRODUCTS DIV
Address: 5600 BICKETT ST
City: VERNON
State: CA
ZIP: 90058-3606
Country: US
CAGE: 83956

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

Composition/Information on Ingredients

Ingredient: KRYPTON *97-2*
CAS: 7439-90-9

Hazard Identification

Routes of Entry: Inhalation: YES Skin: NO Ingestion: NO
Reports of Carcinogenicity: NTP: NO IARC: NO OSHA: NO
Health Hazards Acute and Chronic: POSSIBLE ASPHYXIANT IF USED IN A
CONFINE AREA.
Explanation of Carcinogenicity: NONE

First Aid Measures

First Aid: INHALATION: GIVE OXYGEN IF NEEDED. OBTAIN MEDICAL ATTENTION
IN ALL CASES.

Fire Fighting Measures

Flash Point: NON-FLAMMABLE
Accidental Release Measures

Spill Release Procedures: VENTILATE CONFINED AREAS.

Handling and Storage

Handling and Storage Precautions: FOLLOW NORMAL PRECAUTIONS IN HANDLING HIGH PRESSURE CYLINDER.

Exposure Controls/Personal Protection

Ventilation: LOCAL EXHAUST.
Supplemental Safety and Health

Physical/Chemical Properties

HCC: G3
Boiling Pt: B.P. Text: -244F
Vapor Density: 2.899
Solubility in Water: 0.03031
Appearance and Odor: ODORLESS, COLORLESS & TASTELESS.

Stability and Reactivity Data

Stability Indicator/Materials to Avoid: YES
Hazardous Decomposition Products: NONE

Disposal Considerations

Waste Disposal Methods: OPEN TO AIR PREFERABLE OUTSIDE/IN A ROOM CLEAR OF MACHINERY & PEOPLE W/ADEQUATE VENTILATION. DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

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Product ID: NEON GAS
MSDS Date: 01/01/1985
FSC: 9135
NIIN: 00-800-1815
MSDS Number: BFPZD

=== Responsible Party ===
Company Name: AIRCO INC AIRCO INDUSTRIAL GASES DIV
Address: 575 MOUNTAIN AVENUE
City: NEW PROVIDENCE
State: NJ
ZIP: 07974-2006
Country: US
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Emergency Phone Num: 908-464-8100
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Box: City: MURRAY HILL
State: NJ
ZIP: 07974-2006
Country: US
Phone: 800-424-9300 (CHEMTREC)
CAGE: 00741

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

Ingredient Name: NEON
CAS: 7440-01-9
RTECS #: QP4550000
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: INHALATION: CAN ACT AS AN ASPHYXIANT BY DISPLACING NECESSARY AMOUNT OF AIR TO SUPPORT LIFE.
Explanation of Carcinogenicity: NONE

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

First Aid: OBTAIN MEDICAL ATTENTION IN ALL CASES.

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

Spill Release Procedures: VENTILATE AREA.

Handling and Storage

Handling and Storage Precautions: FOLLOW USUAL PRECAUTIONS IN HANDLING A COMPRESSED GAS CYLINDER.

Exposure Controls/Personal Protection

Ventilation: LOCAL EXHAUST & MECHANICAL (GENERAL).
Supplemental Safety and Health

Physical/Chemical Properties

Boiling Pt: B.P. Text: -410.8°F
Vapor Density: 0.0522
Spec Gravity: 0.6958
Solubility in Water: 0.000974
Appearance and Odor: COLORLESS & ODORLESS.

Stability and Reactivity Data

Stability Indicator/Materials to Avoid: YES
NONE
Hazardous Decomposition Products: NONE

Disposal Considerations

Waste Disposal Methods: DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

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