e:DE ZIP:19898

Country:US Info Phone Num:302-774-6822

Emergency Phone Num:800-441-3637,800-424-9300(CHEMTREC)

Resp. Party Other MSDS Num.:2051FR

Preparer's Name: W.J. BROCK

CAGE:2S827

=== Contractor Identification ===

Company Name: ALLIED HEALTHCARE PRODUCTS, INC

Box:UNKNOW CAGE:6V882

Company Name: DU PONT FLUOROPRODUCTS

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE ZIP:19898 Country:US

Phone:1-800-441-7515

Contract Num:SP0450-99-M-A244

CAGE:2S827

======= Composition/Information o n Ingredients ========

Ingred Name: HEXAFLUOROETHANE ("FREON" 116)

CAS:76-16-4

RTECS #:KI4110000

= Wt:90.

Other REC Limits: NONE RECOMMENDED

Ingred Name: NITROUS OXIDE

CAS:10024-97-2 RTECS #:QX1350000

= Wt:10.

Other REC Limits:50 PPM (DUPONT TWA)

ACGIH TLV:50 PPM: 9394

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS >15,000 MG (N2O)/KG.

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

Reports of Carcinogenicity:NTP:NO IA

RC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL & MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS, OR DEATH. INTENTIONAL MISUSE OR DELIBERATE INHALATION MAY CAUSE DEATH WITHOUT WARNING. VAPOR RE DUCES OXYGEN AVAILABLE FOR BREATHING & IS HEAVIER THAN AIR. LIQUID CONTACT CAN CAUSE FROSTBITE.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:CONTACT WITH THE LIQUID MAY CAUSE FROSTBITE.
OVEREXPOSURE BY INHALATION

MAY INCLUDE NONSPECIFIC DISCOMFORT, SUCH

AS NAUSEA, HEADACHE, OR WEAKNESS; TEMPORARY NERVOUS SYSTEM DEPRESSION WITH ANESTHETIC E FFECTS SUCH AS DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, & LOSS OF CONSCIOUSNESS (LOSS OF VISION HAS BEEN OBSERVED ON REGAINING CONSCIOUSNESS WITH SEVERAL CASES OF PERMANENT VISUAL IMPAIRMENT AN D/OR BLINDNESS); IRRITATION OF THE UPPER RESPIRATORY PASSAGES; OR TEMPORARY ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY WITH IRREGULAR PULSE

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE CENTRAL NERVOUS, CARDIOVASCULAR, REPRODUCTIVE, OR OCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

First Aid:INHALATION-IF INHALED, IMMEDIATE REMOVE TO FRESH AIR. KEEP PERSON CALM. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

SKIN-FLUSH

SKIN WITH PL ENTY OF WATER FOR 15 MIN. TREAT FOR FROST BITE BY GENTLY WARMING AREA. CALL A PHYSICIAN OF IRRITATION PERSISTS. EYE-IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MIN. CALL A PHYSICIAN. INGESTION- INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

============= Fire Fighting Measures ========================

Flash Point Method:TOC Flash Point:NONE

Autoignition Temp:=600.C, 1112.F

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES

IN AREA.

Fire Fighting Procedures:USE WATER SPRAY OR FOG TO COOL CONTAINERS.
SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard: CYLINDERS EQUIPPED WITH PRESURE AND TEMPERATURE RELIEF DEVICES, BUT STILL MAY RUPTURE UNDER FIRE CONDITIONS. NITROUS OXIDE SUPPORTS COMBUSTION.

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

Spill Release Procedures: VENTILATE AREA, ESPECIALLY LO W OR ENCLOSED

PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF-CONTAINED BREATHING APPARATUS (SCBA) IF A LARGE SPILL OR LEAK OCCURS. USE APPROPRIATE P ERSONAL PROTECTIVE EQUIPMENT DURING CLEAN-UP.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions: AVOID BREATHING VAPORS AND CONTACT OF SKIN WITH LIQUID OR COLD VAPORS. USE WITH SUFFICIENT VENTILATION TO

KEEP EXPOSURE BELOW RECOMMENDED LIMITS.

Other Precautions:STORE CONTAINERS IN A CLEAN, DRY AREA. DO NOT HEAT ABOVE 125F (52C).

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

Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF A LARGE RELEASE OCCURS.

Ventilation:NORMAL VENTILATION GENERALLY ADEQUATE.USE LOCAL EXHAUST WHEN LA

RGE AMOUNTS RELEASED, MECHANICAL IN LOW OR ENCLOSED PLACES Protective Gloves: IMPERVIOUS GLOVES FOR HANDLING LIQUID.

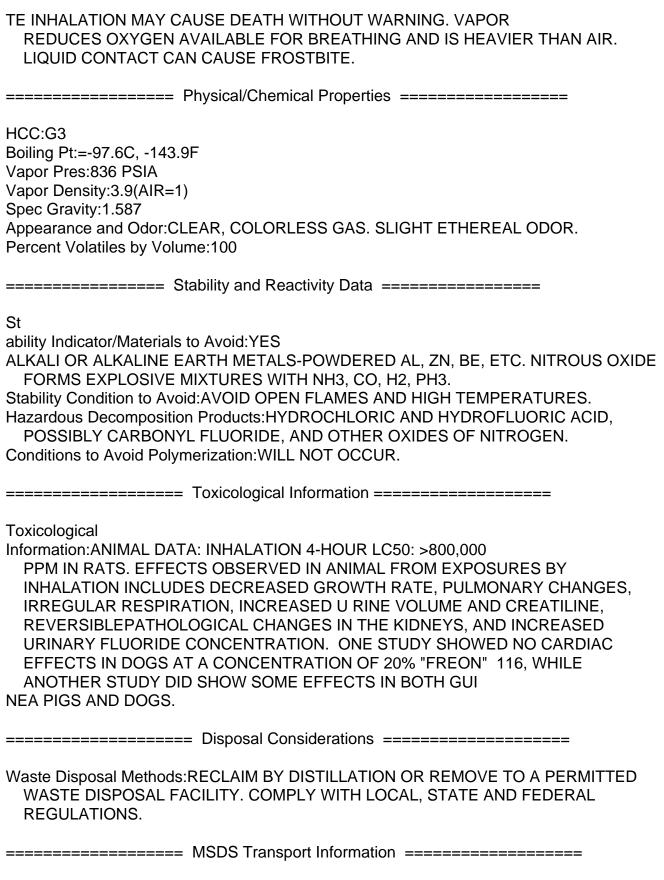
Eye Protection: SPLASH GOGGLES FOR HANDLING LIQUID.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices: WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING.

Supplemental Safety and Health

INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS, OR DEATH. INTENTIONAL MISUSE OR DELIBERA



Transport Information:DOT/IMO/IATA PROPER SHIPPING NAME: COMPRESSED GASES, N.O.S. (HEXAFLUOROETHANE, NITROUS OXIDE). HAZARD CLASS: 2.2. UN NO.: 1956. DOT/IMO LABEL: NONFLAMMABLE

GAS. SHIPPING CONTAINERS: CYLINDERS.

REPORTED/INCLUDED.

======== Regulatory Information ===========

SARA Title III Information:TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312. ACUTE: YES,. CHRONIC: NO. FIRE: NO. REACTIVITY: NO. PRESSURE: YES. LISTS; EXTREMELY HAZARDOUS SUBSTANCE, CERCLA HAZARDOUS SUBSTANCE, TOXIC CHEMICALS -NO. Federal Regulatory Information:TSCA INVENTORY STATUS:

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