

SCOTT SPECIALTY GASES -- TRICHLOROTRIFLUOROETHANE -- 6850-00-935-1082

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

Product ID:TRICHLOROTRIFLUOROETHANE

MSDS Date:01/01/1987

FSC:6850

NIIN:00-935-1082

MSDS Number: BNRGL

=== Responsible Party ===

Company Name:SCOTT SPECIALTY GASES

Address:ROUTE 611 NORTH

Box:D-11

City:PLUMSTEADVILLE

State:PA

ZIP:18949

Country:US

Info Phone Num:215-766-8861

Emergency Phone Num:

215-766-8861, 908-754-7700

CAGE:51847

=== Contractor Identification ===

Company Name:SCOTT SPECIALTY GASES

Address:6141 EASTON RD (6141 ROUTE 611)

Box:310

City:PLUMSTEADVILLE

State:PA

ZIP:18934

Country:US

Phone:215-766-8861/ FAX: 215-766-0416

CAGE:51847

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

Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA III)

CAS:76-13-1

RTECS #:KJ4000000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1000PP

M/1250STEL  
ACGIH TLV:1000PPM/1250STEL9192  
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:LD 50 ORAL RAT 43000 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:AN ANESTHETIC; INHALATION CAN PRODUCE ASPHYXIATION. HIGH CONCENTRATIONS INTERFERE WITH PSYCHOMOTOR FUNCTIONS, EXPRESSED AS EXCITEMENT AND INCOORDINATION. AT HIGHER CONCENTRATIONS, CARDIAC ARRHYTHMIAS IS POSSIBLE  
Explanation of Carcinogenicity:FREON 113 IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.  
Effects of Overexposure:SUPPLIER DID NOT ADDRESS THIS FIELD. SEE HEALTH HAZARDS.  
Medical Cond Aggravated by Exposure:SUPPLIER DID NOT ADDRESS THIS FIELD.

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

First Aid:INHALATION: REMOVE VICTIM TO FRESH AIR, RESTORE AND/OR SUPPORT BREATHING IF NECESSARY. EYE: FLUSH WITH WATER FOR AT LEAST 15 MIN. SKIN: WASH IMMEDIATELY WATER. REMOVE CONTAMINATED CLOTHING. INGESTED: GET MEDICAL ATTENTION IMMEDIATELY.

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

Flash Point:NON-FLAMMABLE  
Lower Limits:NONE  
Upper Limits:NONE  
Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Fire Fighting Procedures:USE SELF CONTAINED BREATHING APPARATUS FOR PROTECTION AGAINST VAPORS.  
Unusual Fire/Explosion Hazard:T  
OXIC AND CORROSIVE VAPORS MAY BE PRODUCED IN A FIRE SITUATUATION.

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

Spill Release Procedures:VENTILATE AND EVACUATE AREA. WEAR SELF CONTAINED RESPIRATOR.RESIDUES OR SMALL SPILLS MAY BE COLLECTED ON ABSORBENT MATERIAL. TRANSFER TO COVERED METAL DRUMS FOR RECOVERY OR DISPOSAL. CONFINE SPILLS AN D DO NOT ALLOW FUNOFF TO SEWER.  
Neutralizing Agent:NONE

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

==

Handling and Storage Precautions:STORE IN CLOSED CONTAINERS IN A COOL, WELL- VENTILATED AREA. KEEP VAPORS AWAY FROM FLAMES, AREC WELDING, HIGH TEMPERATURE SURFACES, ETC.

Other Precautions:PROTCT CONTAINERS FROM PHYSICAL DAMAGE.

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

Respiratory Protection:APPROVED RESPIRATOR EQUIPMENT SHOULD BE AVAILABLE FOR NON ROUTINE AND EMERGENCY USE. SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED IN EMERGENCIES.

Ventilat

ion:PROVIDE ADEQUATE GENERAL AND LOCAL EXHAUST VENTILATION TO KEEP EXPOSURE BELOW TLV, ESPECIALLY SUMPS AND LOW AREAS.

Protective Gloves:PROTECTIVE

Eye Protection:GOGGLES

Other Protective Equipment:WEAR PROTECTIVE GLOVES,GOGGLES AND CLOTHING WHEN LIQUID CONTACT IS POSSIBLE. PROVIDE EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:SUPPLIER DID NOT ADDRESS THIS FIELD.

Supplemental Safety and Health

MSDS RECEIVED FROM NAVY (FOCAL POINT N). NAVY IDENTIFIED NSN.

=====

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

HCC:T6

Boiling Pt:B.P. Text:118F,48C

Decomp Temp:Decomp Text:482F,250C

Vapor Pres:285 MM

Vapor Density:6

Spec Gravity:1.57

Evaporation Rate & Reference:0.45 ACETONE = 1)

Solubility in Water:0.028%

Appearance and Odor:COLORLESS LIQUID, SWEET ETHER-LIKE ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

REACTS VIOLENTLY WITH ACTIVE METALS

SUCH AS ALKALI OR ALKALINE EARTH  
METALS-POWDERED AL,ZN,BE,ETC.

Stability Condition to Avoid:SUPPLIER DID NOT ADDRESS THIS FIELD.

Hazardous Decomposition Products:DECOMPOSED BY HIGH TEMPERATURES  
FORMING HALOGENALIDS, HALOGENS, AND CARBONYL HALIDES.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:WHEN FEASIBLE, WASTE SOLVENT SHOULD BE RECOVERED  
BY FILTRATION OR DISTILLATION. DISPOSAL THROUGH  
A LICENSED WASTE  
DISPOSAL COMPANY SHOULD ALSO BE CONSIDERED.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility fo  
r the suitability of this information to their  
particular situation.