

ALLIED CHEMICAL -- GENETRON 113 TRICHLOROTRIFLUOROETHANE -- 6850-00-033-8851

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Product Identification
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Product ID:GENETRON 113 TRICHLOROTRIFLUOROETHANE

MSDS Date:03/01/1982

FSC:6850

NIIN:00-033-8851

MSDS Number: BCVTD

=== Responsible Party ===

Company Name:ALLIED CHEMICAL

Box:11398

City:MORRISTOWN

ZIP:07960

Country:US

Emergency Phone Num:201-455-2000

CAGE:1L168

=== Contractor Identificat

ion ===

Company Name:ALLIED CHEMICAL COMPANY

Box:1087R

CAGE:1L168

Company Name:ALLIED-SIGNAL INC

Address:Box:2332R

City:MORRISTOWN

State:NJ

ZIP:07962-2332

Country:US

Phone:201-455-4414

CAGE:1L164

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Composition/Information on Ingredients
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Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113) (SARA
III)

CAS:76-13-1

RTECS #:KJ4000000

Fraction by Wt: 100%

OSHA PEL:1000PPM/1250STEL

ACGIH TLV:1000PPM/1250STEL9192

Ozone Depleting Chemical:1

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== Hazards Identification ==

LD50 LC50 Mixture:LD50 (RAT): 43 G/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:INHAL:DROWSINESS,LOSS OF

CONCENTRATION,CARDIAC EFFECTS. INGEST: DISCOMFORT&SAME SYMPTOMS AS
INHAL. EYE & SKIN:IRRITANT W/DEFATTING

Effects of Overexposure:THIS MATERIAL IS LOW IN TOXICITY. IT IS AN

ANESTHETIC & INHALATION ON HIGH CONCENTRATIONS CAN PRODUCE
ASPHYXIATION. AT 2500 PPM IN AIR IT INTERFERS WI

TH PSYCHOLOGICAL

AND PSYCHOMOTOR FUNCTIONS, EXPRES SED AS EXCITEMENT AND
INCOORDINATION. CARDIAC ARRHYTHMIA IS INDICATED AT HIGH
CONCENTRATIONS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MFR.

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

First Aid:INHAL:RMV PATIENT TO FRESH AIR. GIVE CPR IF BREATHING HAS

STOPPED. GIVE OXYGEN AS REQD. GET MEDICAL ATTN. DO NOT GIVE
ADRENALIN (EPINEPHRINE). EYE:FLUSH W/LG AMTS OF WATER. IF SYMPTOMS
PERSIS

T, CONSUL T, PHYSICIAN. SKIN:WASH W/WATER. INGEST: INDUCE

VOMITING IMMEDIATELY BY GIVING 2 GLASSES OF WTER & TOUCHING FINGER
TO BACK OF THROAT. GET MEDICAL ATTN.

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

Flash Point:NOT FLAMMABLE

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS

APPROVED BY NIOSH. USE WATER SPRAY TO KEEP CONTAINERS COOL, TO KEEP
SPILLAGE AWAY FROM FIRE & HEAT & TO KNOCK DOWN VAPOR

Unusual Fire/Explosion Hazard:SEE MATER

IALS TO AVOID DECOMPOSES AT TEMP

ABOVE 250F TO HALOGENS, HALOGEN ACIDS, AND POSSIBLY CARBONYL
HALIDES, SUCH AS PHOSGENE.

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

Spill Release Procedures:EVACUATE UNPROTECTED PERSONNEL. PROTECTED

PERSONNEL RMV FLAMES & SHUT OFF LEAK. ABSORB LIQUID W/COML
ABSORBENT,SHOVEL INTO METAL DRUMS & CLOSE. LG AMTS:DIKE UP WITH
COML ABSORBENT & PUMP INTO DRUMS.

Neutralizing Agent:NONE REQD

==== Handling and

Storage =====

Handling and Storage Precautions:STORE IN COOL, WELL VENTILATED AREA OF LOW FIRE RISK. PROTECT CONTAINERS FROM PHYSICAL DAMAGE AND KEEP CLOSED.

Other Precautions:AVOID BREATHING VAPOR, LIQUID CONTACT W/EYE, SKIN OR CLOTHING.

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

Respiratory Protection:NONE REQUIRED FOR NORMALLY-VENTILATED WORK SITUATIONS. FOR NON-VENTILATED SITUATIONS, USE SCBA OR SUPPLIED-AIR RESPIRATOR. FOR E

SCAPE:SCBA OR GAS MASK W/ORGANIC VAPOR CANISTER.

ALL RESPIRATORS MUST BE NIOSH APPROVED.

Ventilation:LOCAL AT FILLING ZONES & OPERATING SPACES WHERE LEAKING IS PROBABLE. MECHANICAL(GEN) IS OK FOR OTHER OPER&STORAGE AREAS.

Protective Gloves:PVA OR NEOPRENE FOR PROLONGED CONTACT.

Eye Protection:CHEMICAL SAFETY GOGGLES FOR LIQ CONTACT.

Other Protective Equipment:PROTECTIVE CLOTHING OF PVA OR NEOPRENE TO PREVENT REPEATED OR PROLONGED CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING & BEFORE EATING OR SMOKING.

Supplemental Safety and Health

DO NOT SMOKE IN AREA WHERE FUMES MAY BE PRESENT. TOXIC GASES MAY BE FORMED.

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

HCC:N1

Boiling Pt:B.P. Text:117.7F,48C

Melt/Freeze Pt:M.P/F.P Text:-33.7F,-37C

Decomp Temp:Decomp Text:>250F,>121C

Vapor Pres:284

Vapor Density:6.5

Spec Gravity:1.57

Evaporation Rate & Reference:1.3 (ETHER=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR COLORL

ESS LIQUID WITH ETHEREAL ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

CHEMICALLY ACTIVE METALS SUCH AS

ALUMINUM,BARIUM,LITHIUM,TITANIUM,CALCIUM,MAGNESIUM,ZINC & BERYLLIUM
IN POWDERED FORM.

Stability Condition to Avoid:AVOID LIGHTED CIGARETTES, FLAMES, HOT
SPOTS, WELDING.

Hazardous Decomposition Products:HAOLOGENS, HALOGEN ACIDS, AND POSSIBLY
CARBONYL HALIDES, SUCH AS PHOSGENE

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

Waste Disposal Methods:DISPOSE I/A/W LOCAL,STATE AND FEDERAL
REGULATIONS. IT IS ANTICIPATED THAT MATERIAL SOLD UNDER THE
GENETRON NAME WILL NOT BE USED AS A SOLVENT. THEREFORE THE RCRA
"SPENT HALOGENATED SOLVENT" CLASSIFICATION WILL NOT APPLY. SEE
PN/IND A FOR GENESOLV D.

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