

BURDICK AND JACKSON DIV OF BAXTER HEALTHCARE CORP. --  
1,1,2-TRICHLOROTRIFLUOROETHANE -- 6850-00-984-5853

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

Product ID:1,1,2-TRICHLOROTRIFLUOROETHANE

MSDS Date:07/01/1989

FSC:6850

NIIN:00-984-5853

MSDS Number: BMCDT

=== Responsible Party ===

Company Name:BURDICK AND JACKSON DIV OF BAXTER HEALTHCARE CORP.

Address:1953 S HARVEY STREET

City:MUSKEGON

State:MI

ZIP:49442-

6101

Country:US

Info Phone Num:616-726-3171

Emergency Phone Num:616-726-3171/800-424-9300(CHEMTREC)

CAGE:2H215

=== Contractor Identification ===

Company Name:HONEYWELL, BURDICK AND JACKSON

Address:1953 S HARVEY STREET

Box:City:MUSKEGON

State:MI

ZIP:49442-6101

Country:US

Phone:800-368-0050/800-707-4555

CAGE:2H215

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

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

CAS:76-13-1

RTECS #:KJ4000000

Fractio

n by Wt: CA 100%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1000PPM/1250STEL

ACGIH TLV:1000PPM/1250STEL9192

Ozone Depleting Chemical:1

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

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-EYE:CAN BE

IRRITATING.SKIN:PROLONGED/REPEATED CONTACT CAN CAUSE

IRRITATION,DEFATTING & DERMATITIS.INHALE:CAN CAUSE

DIZZINESS,EXCITEMENT

& INTOXICATION.HIGH CONCENTRATIONS CAN CAUSE  
CARDIAC ARRHYTHMIAS.ORAL:CAN CAUSE GASTROINTESTINAL TRACT  
DISCOMFORT.CHRONIC-INHALATION CAUSES CARDIAC ARRHYTHMIAS.  
Effects of Overexposure:1,1,2-TRICHLOROTRIFLUOROETHANE IS A MILD EYE  
AND MUCOUS MEMBRANE IRRITANT AND PRIMARY SKIN IRRITANT. ACUTE  
EXPOSURE CAUSES IRRITATION, DIZZINESS AND GASTROINTESTINAL TRACT  
DISCOMFORT.  
Medical Cond Aggravated by Exposure:PRECLUDE FROM EXPOSURE THOSE  
INDIVIDUALS SUSCEPTIBLE TO DERMATITIS.

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

First Aid:SEEK MEDICAL HELP IN ALL CASES.EYES:FLUSH WITH WATER FOR AT  
LEAST 15 MINUTES.SKIN:WASH WITH SOAP & WATER.INHALED:REMOVE TO  
FRESH AIR.PROVIDE CPR/OXYGEN IF NEEDED.ORAL:DO NOT INDUCE  
VOMITING.CALL A PHYSICIAN OR LOCAL POISON CONTROL CENTER.

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

Flash Point:NONE  
Autoignition Temp:Autoignition Temp Text:680C  
Extinguishing Media:CARBON DIOXIDE,  
FOAM OR DRY CHEMICAL. WATER SPRAY  
MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS  
AWAY.  
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND  
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL  
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.  
Unusual Fire/Explosion Hazard:CONCENTRATED VAPORS CAN BE IGNITED BY  
HIGH INTENSITY HEAT SOURCE OR FLAME. TOXIC AND CORROSIVE GASES ARE  
FORMED ON CONTACT WITH FLAMES OR HOT GLOWING SURFACES.

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

Spill Release Procedures:VENTILATE AREA - ESPECIALLY LOW PLACES WHERE  
HEAVY VAPOR MIGHT COLLECT.REMOVE OPEN FLAMES. USE SELF-CONTAINED  
BREATHING APPARATUS FOR LARGE SPILLS OR RELEASES. DIKE SPILLS. PICK  
UP LIQUID ON SUITABLE ABSORBENT AND STORE IN SEALED CONTAINERS.  
Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORAGE-STORE IN A DRY,WELL VENTILA

TED

AREA AWAY FROM HIGH HEAT & DIRECT SUNLIGHT.

Other Precautions:KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN.  
THIS PRODUCT FOR INDUSTRIAL USE ONLY. AVOID BREATHING VAPORS/MISTS.  
AVOID CONTACT WITH EYES AND SKIN.

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

Respiratory Protection:USE APPROVED RESPIRATOR EQUIPMENT. FOLLOW NIOSH  
AND EQUIPMENT MANUFACTURER'S RECOMMENDATIONS TO DETERMINE  
APPROPRIATE EQUIPMENT (AIR-PURIFYING, AIR-SUPPLIED OR  
S  
ELF-CONTAINED BREATHING APPARATUS).

Ventilation:LOCAL EXHAUST WHEN LARGE AMOUNTS ARE RELEASED. FOR LOW  
PLACES, USE MECHANICAL VENTILATION.

Protective Gloves:NEOPRENE OR NITRILE RUBBER

Eye Protection:CHEMICAL SPLASH GOGGLES/FACE SHIELD

Other Protective Equipment:APRON AND WORK CLOTHING TO MINIMIZE  
EXPOSURE. EYE WASH STATION & SAFETY SHOWER RECOMMENDED.

Work Hygienic Practices:WASH THOROUGHLY AFTER USE AND BEFORE EATING,  
DRINKING OR USING TOILET FACILITIES.

Supplemental Safety and Heal  
th

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

HCC:N1

Boiling Pt:B.P. Text:117F,47C

Melt/Freeze Pt:M.P/F.P Text:-34F,-36C

Vapor Pres:284 @ 20C

Vapor Density:6.5

Spec Gravity:1.564

Evaporation Rate & Reference:>1 (N-BUTYL ACETATE=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH A SLIGHT ETHER-LIKE  
ODOR

Percent Volatiles by Volume:CA 100

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

Stability Indicator/Mat

erials to Avoid: YES

ACTIVE METALS

Stability Condition to Avoid: HEAT, SPARKS, OPEN FLAMES, OPEN CONTAINERS  
AND POOR VENTILATION

Hazardous Decomposition Products: HYDROCHLORIC AND HYDROFLUORIC ACIDS,  
PHOSGENE AND CHLORINE

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

Waste Disposal Methods: MATERIAL MAY BE DISPOSED OF BY A LICENSED  
RECLAIMER OR INCINERATION FACILITY. COMPLY WITH LOCAL, STATE AND  
FEDERAL REGULATIONS. EPA HAZARDOUS WASTE NOS. F001 AND F002 MAY  
  
APPLY TO WASTE MATERIALS.

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