

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

Product ID:ISOTRON 12

MSDS Date:10/10/1983

FSC:6830

NIIN:00-106-1656

MSDS Number: BHCFJ

=== Responsible Party ===

Company Name:PENNWALT CORPORATION

Address:THREE PARKWAY

City:PHILADELPHIA

State:PA

ZIP:19102

Info Phone Num:215-587-7711

Emergency Phone Num:215-587-7711

Preparer's Name:TOM DOYLE

CAGE:7K913

=== Contractor Identification ===

Company Name:PENNWALT CORPORATION/E

LF ATOCHEM NORTH AMERICA

Address:THREE PARKWAY

City:PHILADELPHIA

State:PA

ZIP:19102

Phone:215-587-7711

CAGE:7K913

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

Ingred Name:DICHLORODIFLUOROMETHANE (SARA III)

CAS:75-71-8

RTECS #:PA8200000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED BY M.

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ozone Depleting Chemical:1

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

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LD50 LC50 Mixture:ORAL LD50 (RAT) = >1000MG/KG
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: MAY CAUSE EYE & SKIN
IRRITATION. INHALATION MAY CAUSE DIZZINESS, UNCONCIOUSNESS,
DIFFICULTY IN BREATHING OR DEATH. BREATHING HIGH CONCENTRATIONS CAN
CAUSE IRREGULAR AND RAPID HEART BEAT. CHRONI C: PROLONGED OR
REPEATED CONTACT WITH GAS ON THE SKIN OR IN EYES CAN CAUSE
IRRITATION.
BREATHING MAY CAUSE DEATH.
Effects of Overexposure:HEADACHE, DIZZINESS, DROWSINESS, NAUSEA,
TINGLING OR NUMBNESS OF THE EXTREMITIES, SENSES OF FULLNESS IN THE
HEAD, SENSE OF WARMTH, STUPOR OR DULLNESS, LETHARGY AND DRUNKENESS.
VERY HIGH CONCENTRATIONS MAY LEAD TO UNCONSCIOUSNESS OR EVEN DEATH
IN CONFINED OR POORLY VENTILATED AREAS.
Medical Cond Aggravated by Exposure:PEOPLE WITH KNOWN HISTORY OF HEART
DISEASE OR IRREGULARITIES OF HEARTBEAT SHOULD BE PARTICULARLY
CAREFUL
TO AVOID OVEREXPOSURE TO THESE VAPORS.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR.
IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. KEEP
VICTIM QUIET, DO NOT GIVE STIMULANTS. NARCOTIC EFFECT. DENSE VAPORS
MAY REMA IN IN LUNGS. MAY CAUSE MILD IRRITATION. EYE: FLUSH
IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL
ATTENTION. SKIN: WASH WITH SOAP AND WAT
ER PROMPTLY. GET MEDICAL
ATTENTION.

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

Flash Point:NOT FLAMMABLE
Fire Fighting Procedures:WEAR SCBA IF FIGHTING FIRES NEAR THIS PRODUCT
DUE TO TOXIC THERMAL DECOMPOSITION PRODUCTS. KEEP CONTAINER COOL.
Unusual Fire/Explosion Hazard:MAY DECOMPOSE IN CONTACT WITH FLAMES,
HEATING ELEMENTS, OR IN GAS ENGINES(EXTREME HEAT) RELEASING
IRRITATING, TOXIC AND CORROSIVE GASES.

===== Accidental Release Measure

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Spill Release Procedures:KEEP UPWIND, EVACUATE ENCLOSED SPACE. DISPERSE GAS WITH FLOOR-LEVEL FORCED AIR VENTILATION OR WATER SPRAY. DO NOT SMOKE. REMOVE FLAMES, HEATING ELEMENTS, GAS ENGINES, ETC.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

Other Precautions:EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. DO NOT BREATH DUST, VAPOR, MIST OR GAS. DO NOT GET IN EYES OR ON SKIN.

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

Respiratory Protection:SELF-CONTAINED, SUPPLIED AIR.

Ventilation:LOCAL EXHAUST RECOMMENDED TO CONTROL VAPORS BELOW 50% OF TLV.

Protective Gloves:SYNTHETIC RUBBER

Eye Protection:CHEMICAL SAFETY 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, SMOKING OR USING TOILET FACILITIES. DO NOT BREATH VAPORS OR MIST.

Supplemental Safety and Health

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

HCC:G3

Boiling Pt:B.P. Text:-22F,-30C

Vapor Pres:84.9

Vapor Density:4.17

Spec Gravity:1.29

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS LIQUIFIED GAS WITH FAINT, ETHEREAL ODOR.

Percent V

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

Stability Indicator/Materials to Avoid:YES

MAGNESIUM

Stability Condition to Avoid:THERMAL DECOMPOSITION.

Hazardous Decomposition Products:HYDROGEN FLUORIDE, HYDROGEN CHLORIDE,
CHLORINE.

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

Waste Disposal Methods:BEST TO RECYCLE OR RECLAIM, IF POSSIBLE. MAY BE
INCINERATED IN OIL-FIRED FURNACE BUT TOXIC AND CORROCIVE COMBUSTION

GASES MUST BE HANDLED. CONSULT FEDERAL, STATE, OR LOCAL AUTHORITIES
FOR PROPER DISPO SAL PROCEDURES.

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