

METALCRAFT INC -- HALON 1211 RECYCLED -- 6830-01-356-1211

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

Product ID:HALON 1211 RECYCLED

MSDS Date:05/31/1989

FSC:6830

NIIN:01-356-1211

MSDS Number: CDYJQ

=== Responsible Party ===

Company Name:METALCRAFT INC

Address:718 DEBELIUS AVE

City:BALTIMORE

State:MD

ZIP:21205

Country:US

Info Phone Num:410-485-0880/FAX -4451

Emergency Phone Num:800-457-4280

CAGE:06535

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Contractor Identification ===

Company Name:DDRV STOCK MAINTENANCE DIV/DDRV-H

Address:8000 JEFFERSON-DAVIS HIGHWAY

Box:City:RICHMOND

State:VA

ZIP:23297

Country:US

Phone:804-279-3125

CAGE:02LX8

Company Name:METALCRAFT INC

Address:9331 PHILADELPHIA ROAD

Box:City:BALTIMORE

State:MD

ZIP:21237

Country:US

Phone:410-687-5500

CAGE:06535

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

Ingred Name:BROMOCHLORDIFLUOROMETHANE (HALON 1211) (SARA 313)

CAS:353-59-3

Fraction by Wt: 100%

Oth

er REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT RELEVANT.

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

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

Health Hazards Acute and Chronic:TARGET ORGANS:CNS, EYES, SKIN, LUNGS.

ACUTE- EYE:CONTACT WITH LIQUID CAN CAUSE "FREEZER" BURNS.

SKIN:LIQUID CAN CAUSE FROSTBITE. ORAL:NOT LIKELY TO OCCUR (GAS AT ROOM TEMPERATURES). INHALE:AT C

ONCENTR ATIONS >20,000 PPM,

IRREGULARITIES IN THE CENTRAL NERVOUS SYSTEM AND CARDIAC MUSCLE ARE EXHIBITED. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:FROSTBITE, EYE BURNS, HEADACHE, DIZZINESS, CONFUSION, INCOORDINATION, UNCONSCIOUSNESS, IRREGULAR PULSE, CONVULSION

Medical Cond Aggravated by Exposure:ANEMIA, ASTHMA, DERMAL SENSITIVITY AND LOW BLOOD PRESSURE

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

First Aid:CALL

A DOCTOR IF SYMPTOMS PERSIST. EYE: IMMEDIATELY FLUSH

WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN: REMOVE CONTAMINATED CLOTHING AND WASH EXPOSED SKIN WITH LARGE AMOUNT OF WATER. INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGENIF NEEDED.

ORAL:NOT A POTENTIAL ROUTE OF EXPOSURE (GAS). NOTE TO PHYSICIAN: DO NOT GIVE ADRENALINE OR SIMILAR DRUGS.

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

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:N

OT RELEVANT

Extinguishing Media:THIS IS FIRE EXTINGUISHER. COOL FIRE EXPOSED CONTAINERS WITH WATER WELL AFTER FIRE IS OUT TO PREVENT POSSIBLE EXPLOSIONS

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED.

Unusual Fire/Explosion Hazard:IRRITATING AND/OR TOXIC GASES DUE TO DECOMPOSITION OF THE PRODUCT MAY BE GENERATED DURING A FIRE. CONTAINERS MAY EXPLODE DUE TO FIRE.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. VENTIALTE AREA ESPECIALLY LOW PLACES. REMOVE SPILL WITH ABSORBENT MATERIAL AND PLACE INTO A DRUM APPROVED FOR WASTE DISPOSAL.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN A COOL, WELL-VENTILATED AREA AWAY FROM HEAT, FLAMES, HOT SURFACES AND INCOMPATIBLE MATERIALS. DO

NOT SMOKE WHILE WORKING WITH THIS PRODUCT.

Other Precautions:AVOID EYE AND SKIN CONTACT. DO NOT INHALE VAPORS. KEEP OUT OF REACH OF CHILDREN. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING.

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS MUST BE WORN.

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE TO A MINIMUM LEVEL.

Protective Gloves:NITRILE OR NATURAL RUBBER

Eye Protection:SPLASH PROOF GOGGLES WITH SIDE SHIELDS

Other Protective Equipment:EYE WASH STATION, EMERGENCY SHOWER, IMPERVIOUS BODY COVERING AND BOOTS WHERE SPILLS OR SPLASHING OCCUR

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

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

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:24.8F,-4.0C

Melt/Freeze Pt:M.P/F.P Text:-256F,-160C

Decomp Temp:Decomp Text:850F,454C

Vapor Pres:2518 @ 68F

Vapor Density:6.0

Spec Gravity:1.82

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT MISCIBLE

Appearance and Odor:COLORLESS GAS WITH SLIGHT ETHEREAL ODOR

Percent Volatiles by Volume:100

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

Stabil

ity Indicator/Materials to Avoid: YES

ALKALINE EARTH METALS, ALKALI, POWDERED ALUMINUM, ZINC, BERYLLIUM

Stability Condition to Avoid: EXPOSURE TO FLAMES OR HOT SURFACES ABOVE  
850F (454C)

Hazardous Decomposition Products: HYDROBROMIC, HYDROCHLORIC AND  
HYDROFLUORIC ACIDS, POSSIBLY FREE HALIDES AND CARBONYL HALIDES

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

Waste Disposal Methods: RECOVERED MATERIAL CAN BE INCINERATED IN A  
FURNACE WHERE PERMITTED. OBSERVE ALL LOCAL, STATE AND FEDERAL  
REGULATIONS. RECYCLING OR REUSE IS RECOMMENDED.

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