

METALCRAFT INC -- HALON 1301 CF3BR -- 6830-00-965-9647

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

Product ID:HALON 1301 CF3BR

MSDS Date:01/01/1991

FSC:6830

NIIN:00-965-9647

MSDS Number: BSKTY

=== Responsible Party ===

Company Name:METALCRAFT INC

Address:718 DEBELIUS AVE

City:BALTIMORE

State:MD

ZIP:21205

Country:US

Info Phone Num:301-485-0880

Emergency Phone Num:800-457-4280

CAGE:06535

=== Contractor Iden

tification ===

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:BROMOTRIFLUOROMETHANE (HALON 1301) (SARA III)

CAS:75-63-8

RTECS #:PA5425000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9394

Ozone Depleting Chemical:1

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

=====

LD50 LC50 Mixture: ORAL LD50 (RAT) IS UNKNOWN.

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

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

Health Hazards Acute and Chronic: EYES: CONTACT WITH LIQUID CAN CAUSE "FREEZER" BURNS. SKIN: CONTACT WITH LIQUID CAN CAUSE FROSTBITE. INHALATION: AT CONCENTRATIONS >20,000 PPM, IRREGULARITIES IN CENTRAL NERVOUS SYSTEM AND CARDIAC MUSCLE ARE EXHIBITED. INGESTION: MILDLY TOXIC BY INGESTION, AFFECTING CENTRAL NERVOUS SYSTEM.

Effects of Overexposure: EYES: "FREEZER" BURNS. SKIN: FROSTBITE.

INHALATION: IRREGULARITIES IN CENTRAL NERVOUS SYSTEM AND CARDIAC MUSCLE. INGESTION: CENTRAL NERVOUS SYSTEM EFFECTS.

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

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

First Aid: EYES: FLUSH WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLO

THING. WASH AREA WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INHALATION: IF ADVERSE SYMPTOMS DEVELOP, MOVE TO FRESH AIR AND GIVE OXYGEN IF NEEDED. GET MEDICAL ATTENTION. INGESTION: FOR LARGE AMOUNTS INGESTED, INDUCE VOMITING. GET MEDICAL ATTENTION.

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

Extinguishing Media: NON-FLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.

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: MOVE CONTAINER FROM FIRE AREA, IF POSSIBLE. COOL FIRE EXPOSED CONTAINERS WITH WATER WELL AFTER FIRE IS OUT, TO PREVENT POSSIBLE EXPLOSIONS.

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

Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT. VENTILATE AREA AND REMOVE ALL IGNITION SOURCES. CONTAIN SPILL BY BUI

LDING A DIKE USING

ABSORBENT MATERIAL. COLLECT SPILL WITH ABSORBENT MATERIAL AND PLACE INTO A DRUM APPROVED FOR WASTE DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

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

Other Precautions:AVOID EYE AND SKIN CONTACT. WHEN TRANSFERRING FROM

CONTAINERS, GROUND AND BOND BOTH CONTAINERS. DO NOT INHALE VAPORS. KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS. WHERE EXPOSED TO DUST/FUMES WEAR NIOSH RESPIRATOR FOR DUST/MISTS/FUMES APPROVED FOR THE AIRBORNE CONCENTRATION. WHERE VAPORS ARE GENERATED, USE NIOSH ORGANIC RESPIRATOR APPROVED FOR THE EXPOSURE.

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL) AND/OR LOCAL

EXHAUST VENTILATION TO MAINTAIN EXPOSURE BELOW APPROVED PEL OR TLV.

Protective Gloves:NITRILE OR NATURAL RUBBER GLOVES.

Eye Protection:SPLASH PROOF GOGGLES WITH SIDE SHIELDS.

Other Protective Equipment:WEAR IMPERVIOUS BODY COVERING AND BOOTS WHERE SPILLS OR SPLASHING OCCUR.

Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:G3

Boiling Pt:B.P. Text:-72F,-58C

Melt/Freeze Pt:M.P/F.P Text:-270F,-168C

Vapor Pres:220 PSIG

Vapor Density:5.14

Spec Gravity:1.54

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR, LIQUEFIED GAS. SLIGHT ETHEREAL ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

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

Stability Condit

ion 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.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE
AND FEDERAL REGULATIONS. RECOVERED MATERIAL CAN BE INCINERATED IN A
FURNACE WHERE PERMITTED.

Di

sclaimer (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 for the suitability of this information to their
particular situation.