

HF SCIENTIFIC INC. -- MULTIPURPOSE CLEANING KIT,11919 -- 6850-01-201-9864

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Product Identification  
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Product ID: MULTIPURPOSE CLEANING KIT,11919

MSDS Date: 09/17/1992

FSC: 6850

NIIN: 01-201-9864

Kit Part: Y

MSDS Number: BQDQH

=== Responsible Party ===

Company Name: HF SCIENTIFIC INC.

Address: 3170 METRO PARKWAY

City: FORT MYERS

State: FL

ZIP: 33916-7597

Country: US

Info Phone Num: 813-337-2116, FAX: 8

13-332-7643

Emergency Phone Num: 813-337-2116, 800-424-9300 (CHEMTREC)

CAGE: 58177

=== Contractor Identification ===

Company Name: HF SCIENTIFIC INC.

Address: 3170 METRO PARKWAY S.E.

City: FORT MYERS

State: FL

ZIP: 33916-7539

Country: US

Phone: 941-337-2116

CAGE: 58177

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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: 74-76%

Other REC Limits: NONE SPECIFIED

OSHA PEL:

1000PPM/1250STEL  
ACGIH TLV:1000PPM/1250STEL9192  
Ozone Depleting Chemical:1

Ingred Name:ISOPROPYL ALCOHOL (SARA III)  
CAS:67-63-0  
RTECS #:NT8050000  
Fraction by Wt: 24-26%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:400 PPM/500 STEL  
ACGIH TLV:400 PPM/500STEL;9192

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===== Hazards Identification =====  
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Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES: IRRITATION. SKIN: IRRITATION.

INHALATION: CARDIAC RHYTHM IRREGULARITY, LUNG AND LIVER DAMAGE, NERVOUS SYSTEM IMPAIRMENT. INGESTION: NOT LIKELY TO OCCUR.  
Effects of Overexposure:EYES: IRRITATION, REDNESS, TEARING, AND SWELLING. SKIN: DEFATTING, IRRITATION. INHALATION: RESPIRATORY SYSTEM IRRITATION, LUNG AND LIVER DAMAGE, CONFUSION, TREMORS, SLEEPINESS AND HEART RHYTHM DISTURB ANCE. DELIBERATE MISUSE BY CONCENTRATIONAND INHALATION OF VAPORS MAY CAUSE HEART IRREGULARITIES AND SUDDEN DEATH.

Med  
ical Cond Aggravated by Exposure:PERSONS WITH A PRE-EXISTING DISEASE INVOLVING EYES, SKIN, RESPIRATORY SYSTEM AND CARDIAC CONDITIONS MAY BE AT INCREASED RISK FROM EXPOSURE.

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===== First Aid Measures =====  
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First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS GET MEDICAL ATTENTION. SKIN: WASH AREA WITH SOAP AND WATER. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. IF BREATHING DIFFI CULT GIVE OXYGEN. GET MEDICAL ATTENTION.INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

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===== Fire Fighting Measures =====  
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Flash Point Method:TOC  
Flash Point:>143F,>62C  
Lower Limits:2.5  
Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.  
Fire Fighting Procedures:FIRE FIGHTERS USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE.USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.  
Unusual Fire/Explosion

Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:FOR LARGE SPILLS EXTINGUISH ALL IGNITION SOURCES, COLLECT SPILLED MATERIAL, CLEAN UP RESIDUE, AND PLACE IN METAL CONTAINER FOR DISPOSAL. USE ABSORBENT MATERIAL AS NEEDED IN CLEANUP PROCEDURE. OBSERVE ALL SAFETY PRECAUTIONS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling

and Storage Precautions:STORE IN COOL, DRY AREA AWAY FROM SOURCES OF IGNITION. KEEP CONTAINERS CLOSED. PROTECT FROM PHYSICAL DAMAGE. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:AVOID EYE AND SKIN CONTACT, AND INHALING OF VAPORS.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF LARGE QUANTITIES ARE USED, WEAR APPROPRIATE ORGANIC VAPOR RESPIRATOR.

Ventilation:LOCAL EXHAUST AND/OR MECHANICAL (GENERAL) AS REQUIRED TO

KEEP VAPOR CONCENTRATION BELOW RECOMMENDED LEVELS.

Protective Gloves:NONE NORMALLY REQUIRED.

Eye Protection:SPLASH GOGGLES IF NEEDED.

Other Protective Equipment:NONE NORMALLY REQUIRED.

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

Supplemental Safety and Health

KIT CONSISTS OF TWO 4-OZ BOTTLES OF CLEANING SOLUTION, ONE DISPENSER CAP, TEN DOUBLE ENDED CLEANING WANDS, FIFTY LINT-FREE WIPES, AND

ONE TYPE ELEMENT CLEANING BRUSH.

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

HCC:V5

Boiling Pt:=52.2C, 126.F

B.P. Text:126F/52C

Vapor Pres:33 MM HG

Vapor Density:5.0 AIR=1

Spec Gravity:0.916

Evaporation Rate & Reference:0.8 (BUTYL ACETATE=1)

Solubility in Water:25%

Appearance and Odor:CLEAR LIQUID. ALCOHOL ODOR.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS. MAY REACT VIOLENTLY WITH

ALUMINUM, BARIUM, LITHIUM,  
TITANIUM, AND NAK ALLOYS.

Stability Condition to Avoid: HIGH TEMPERATURES, SPARKS, AND OPEN  
FLAMES.

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE,  
HYDROGEN FLUORIDE, HYDROGEN CHLORIDE WHEN EXPOSED TO FLAME OR  
EXCESSIVE HEAT.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Waste Disposal Methods: DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE  
AND FEDERAL REGULATIONS.

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