

AMERICAN GAS AND CHEMICAL COMPANY,LTD -- FLAW-FINDER AG-RH CLEANER(POST 3/90) --
6850-00-782-2740

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

Product ID:FLAW-FINDER AG-RH CLEANER(POST 3/90)

MSDS Date:08/29/1990

FSC:6850

NIIN:00-782-2740

Kit Part:Y

MSDS Number: BJMZY

=== Responsible Party ===

Company Name:AMERICAN GAS AND CHEMICAL COMPANY,LTD

Address:220 PEGASUS AVENUE,

City:NORTHVALE

State:NJ

ZIP:07647-19

04

Country:US

Info Phone Num:201-767-7300

Emergency Phone Num:201-767-7300

Preparer's Name:GEORGE KOSEL,CHIEF CHEM

CAGE:03530

=== Contractor Identification ===

Company Name:AMERICAN GAS AND CHEMICAL COMPANY,LTD

Address:220 PEGASUS AVENUE,

City:NORTHVALE

State:NJ

ZIP:07647-1904

Country:US

Phone:201-767-7300

CAGE:03530

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

Ingred Name:METHYL CHLOROFORM (1,1,1-TRICHLOROETHANE) (SARA III)

CAS:71-55-6

RTECS #:KJ2975000

Fraction by Wt:

96.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:350 PPM/450 STEL
ACGIH TLV:350 PPM/450STEL;9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS
Ozone Depleting Chemical:1

Ingred Name:CHLORODIFLUOROMETHANE
CAS:75-45-6
RTECS #:PA6390000
Fraction by Wt: 4.0%
OSHA PEL:1000 PPM
ACGIH TLV:1000PPM; 9192
Ozone Depleting Chemical:2

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: IRRITATION OF EYES, SKIN,
RESPIRATORY TRACT; HEADACHE, DIZZINESS, ANESTHETIC EFFECTS, CNS
DEPRESSION; CHRONIC: DEFATTING, DERMATITIS; HEALTH STUDIES HAVE
SHOWN THAT MANY HALOGENATED HYDROCARBONS POSE POTENTIAL HUMAN
HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON.

Explanation of Carcinogenicity:MFRG STATED THAT 1,1,1-TRICHLOROETHANE
HAS BEEN SUBJECTED TO A CARCINOGENESIS BIOASSAY BY NCI AND FOUND
NOT A CARCINOGEN

Effects of Over
exposure:INHALATION:HIGH VAPOR CONC CAUSES
IRRITATION,HEADACHE,DIZZINESS AND CNS
DEPRESSION;SKIN:PROLONGED/REPEATED CONTACT TENDS TO REMOVE SKIN OIL
POSSIBLY LEADING TO IRRITATION AND DERMATITIS;EYES:LIQ CONTACT MAY
CAUSE IRRITATION;INGESTION:PRODUCT HAS LOW ORDER OF ACUTE ORAL
TOXICITY.MINUTE QTY INSPIRATED IN LUNGS IS FATAL.

Medical Cond Aggravated by Exposure:NONE REPORTED BY THE MANUFACTURER.
HOWEVER, PRE-EXISTING CONDITIONS MAY BE WORSEN.

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First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR: SEEK MEDICAL HELP. IF BREATHING IS IRREGULAR OR HAS STOPPED, START RESUSCITATION AND ADMINISTER OXYGEN IF AVAILABLE; SKIN AND EYES: FLUSH WITH PLENTY OF WATER FOR ABOUT 15 MINUTES. SEEK MEDICAL HELP IF IRRITATION PERSISTS. INGESTION: DO NOT INDUCE VOMITING. IMMEDIATELY CALL A PHYSICIAN.

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

Flash Point:NONE

Lower Limits:7.5

Upper Limits:15.0

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. CONTAIN RUNOFF.

Unusual Fire/Explosion Hazard:NONE CURRENTLY KNOWN.COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill

Release Procedures:USE PROPER PERSONAL PROTECTION: REMOVE ALL IGNITION SOURCES: RECOVER FREE LIQUID; USE SUITABLE INERT ABSORBENT MATERIAL SUCH AS SAND, SAWDUST, ETC.. TO ABSORB SPILLED LIQUID. VENTILATE CONFINED SPACES .KEEP MATERIAL OUT OF SEWERS AND WATER COURSES.

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

Handling and Storage Precautions:STORE IN A COOL DRY PLACE BELOW 120F. DO NOT PUNCTURE OR INCINERATE AEROSOL CANS. DO NOT STORE OR HANDLE NEAR HEAT, SPARKS OR OXIDANTS.

Other Precautions:DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND,OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION:THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.DO NOT ATTEMPT TO CLEAN SINCE RESIDUE IS DIFFICULT TO REMOVE.

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

Respiratory Protection:USE SUPPLIED-AIR RESPIRATOR PROTECTION IN CONFINED AREA, IF NEEDED.

Ventilation:PROVIDE >60FPM HOOD

FACE VELOCITY. LOCAL EXHAUST TO MAINTAIN PEL/TLV (USE EXPLOSION PROOF EQUIPMENT.)
Protective Gloves:USE CHEMICAL RESISTANT OTHER THAN RUBBER
Eye Protection:FACE SHIELD/SPLASH PROOF GOGGLES.
Other Protective Equipment:USE CHEMICAL RESISTANT APRON OR OTHER IMPERVIOUS CLOTHING, IF NEEDED, TO AVOID CONTAMINATING REGULAR CLOTHING.
Work Hygienic Practices:WASH THOROUGHLY AFTER EACH USE.
Supplemental Safety and Health
AG-RH CLEANER IS CLASS 1 REMOVER OF MIL-I-25135. PER MFRG, PROPELLANT

HAS BEEN SWITCHED FROM CARBON DIOXIDE TO FREON 22 EFFECTIVE MARCH 90. PER MIL-I-25135,REV E AND QPL-25135-14/15,THIS REMOVER,AG-RH ,IS QUALIFIED WITH FORM-D DEVELOPER ANDTY I,METH C,LEVEL 3 PENETRANT. SEE PNIND C FOR OLD CLEANER PROPELLANT. KEY1:J7

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

HCC:V2
Boiling Pt:B.P. Text:162F,72C
Vapor Pres:100MMHG@20
Vapor Density:4.55
Spec Gravity:1.32 (BULK)
Evaporation Rate & Reference:1.33 (WATER=1) (BULK)
Solubility in Water:NEGLIGIBLE
Appearance and Odor:COLORLESS LIQUID; SWEET ODOR
Percent Volatiles by Volume:>99%

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENT, STRONG CAUSTICS, REACTIVE METALS LIKE ALUMINUM.
Stability Condition to Avoid:EXTREMELY HIGH TEMPERATURES
Hazardous Decomposition Products:HYDROGEN CHLORIDE, SMALL AMOUNT OF PHOSGENE AND CHLORINE.

===== Disposal Considerations =====
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Waste Disposal Methods:DISPOSE OF RECOVERED MATERIAL AT AN APPROVED DISPOSAL SITE OR FACILITY. CAN BE RECLAIMED AND RECYCLED. ASSURE CONFORMITY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL DISPOSAL REGULATIONS. DO NOT INCINERATE EMPTY OR PARTIALLY FILLED AEROSOLCANS.

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