

AMERICAN GAS AND CHEMICAL COMPANY,LTD -- FLAW-FINDER AG-DH DEVELOPER --
6850-00-160-8480

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

Product ID:FLAW-FINDER AG-DH DEVELOPER

MSDS Date:01/03/1989

FSC:6850

NIIN:00-160-8480

MSDS Number: BHHWX

=== Responsible Party ===

Company Name:AMERICAN GAS AND CHEMICAL COMPANY,LTD

Address:220 PEGASUS AVENUE,

City:NORTHVALE

State:NJ

ZIP:07647-1904

Country:US

Info Phone Num:201-767-7300

Emergency Phone Num:201-767-7300

Preparer's Name:GEO

RGE 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

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

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

CAS:71-55-6

RTECS #:KJ2975000

Fraction by Wt: 90.0%

OSHA PEL:350 PPM/450 STEL

ACGIH TLV:350 PPM/450STEL;9192

EPA Rpt Qty:1000 LBS

DOT Rpt Q

ty:1000 LBS
Ozone Depleting Chemical:1

Ingred Name:DICHLORODIFLUOROMETHANE (SARA III)
CAS:75-71-8
RTECS #:PA8200000
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 =====

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;HEAD
ACHE,DIZZINESS,ANESTHETIC
EFFECTS,CNS DEPRESSION; CHRONIC:DEFATTING,DERMATITIS; HEALTH
STUDIES HAVE SHOWN THAT MANY HALOGENATED HYDROCARBONS POSE PO
TENTIAL 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 Overexposure: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 CONTA CT 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;

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

First Aid:INHALATION:REMOVE TO FRESH AIR:SEEK MEDICAL HE
LP.IF BREATHING
IS IRREGULAR OR HAS STOPPED,START RESUSCINATION;ADMINISTER OXYGEN
IF AVAILABLE; SKIN AND EYES:FLUSH WITH PLENTY OF WATER FOR ABOUT 15
MINU TES.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:FOAM,DRY CHEMICAL,CARBON DIOXIDE,WATER SPRAY OR
FOG.
Fire Fighting Procedu

res:USE AIR SUPPLIED BREATHING EQUIPMENT FOR
ENCLOSED AREA.COOL EXPOSED CONTAINERS WITH WATER SPRAY.AVOID
BREATHING VAPOR OR FUMES.

Unusual Fire/Explosion Hazard:CONTAINERS MAY BURST/EXPLODE IN HEAT OF
FIRE.

===== 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.VENT
ILATE 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 CA
USE 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 Equipmen

t:USE CHEMICAL RESISTANT APRON OR OTHER
IMPERVIOUS CLOTHING,IF NEEDED,TO AVOID CONTAMINATING REGULAR
CLOTHING.EYE-WASH FAC

Supplemental Safety and Health

NSN FOR TYPE II,FORM D OF MIL-I-25135E;QPL-25135-15 APPLIES.UNDER THIS
NSN,FLAW-FINDER AG-DH & AG-DN DEVELOPERS MAY HAVE BEEN IN THE
SUPPLY SYSTEM PRIOR TO 18JUN90 FROM THE SAME VENDOR. NOTE:THIS NSN
WAS CANCELLED ONE TIME ON 06APR89 AS DUPLICATE OF 6850012648681.BUT
NOW THIS NSN HAS BEEN REINSTATED & CANCELLED OTHER.

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

HCC:V2

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:MILK LIQUID BEFORE FILLING IN THE AEROSOL CANS.
SWEET ODOR.

Percent Volatiles by Volume:>90%

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENT,STRONG CAUSTICS,RE
ACTIVE METALS LIKE ALUMINUM.

Stability Condition to Avoid:EXTREME HEAT

Hazardous Decomposition Products:HYDROGEN CHLORIDE,SMALL AMOUNT OF
PHOSGENE AND CHLORINE.

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

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 AEROSOL CANS EMPTY OR FILL
D.

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