

AMERICAN GAS AND CHEMICAL COMPANY,LTD -- FLAW FINDER AG-DH DEVELOPER --  
6850-01-264-8679

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

Product ID:FLAW FINDER AG-DH DEVELOPER  
MSDS Date:02/01/1993  
FSC:6850  
NIIN:01-264-8679  
MSDS Number: BGRVH  
=== 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:  
800-526-1008  
Emergency Phone Num:800-526-1008/201-767-7300  
Preparer's Name:GEORGE KOSEL  
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: 90%  
OSHA PEL:350 PPM/450 S

TEL  
ACGIH TLV:350 PPM/450STEL;9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS  
Ozone Depleting Chemical:1

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===== 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: INHALE- HIGH VAPOR  
CONCENTRATIONS ARE IRRITATING TO RESPIRATORY TRACT AND ARE  
ANESTHETIC TO CNS. SKIN- DEFATTING MAY OCCUR. EYE- CONTACT MAY  
CAUSE IRRITATION. INGE  
ST- PRODUCT IS NOT NORMALLY TO XIC, BUT IF  
ASPIRATED, MAY CAUSE INJURYOR DEATH. CHRO  
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 CONTA TENDS TO REMOVE SKIN OIL  
POSSIBLY LEADING TO IRRITATION AND DERMATITIS;EYES:LIQUID CONT ACT  
MAY CA  
USE IRRITATION;INGESTION:PRODUCT HAS LOW ORDER OF ACUTE ORAL  
TOXICITY.MINUTE QTY INSPIRATED IN LUNGS IS FATAL.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

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

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===== 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 Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &  
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER  
SPRAY TO CO NEARBY CONTAINERS EXPOSED TO FIRE.  
Unusual Fire/Explosio

n Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTI  
OF HAZARDOUS DECOMPOSITION PRODUCTS. AVOID BREATHING VAPORS OR  
MISTS.

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

Spill Release Procedures:REMOVE ALL IGNITION SOURCES. RECOVER FREE  
LIQUID. ADD ABSORBENT SUCH AS SAND, SAWDUST, ETC. TO SPILL AREA.  
VENTILATE CONFINED SPACES. KEEP MATERIAL OUT OF SEWERS AND WATER  
COURSES.

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

Handling and

Storage Precautions:KEEP CONTAINERS CLOSED WHEN NOT IN  
USE. DO NOT HANDLE OR STORE NEAR HEAT, SPARKS, FLAME OR STRONG  
OXIDANTS. EFFECTIVELY GROUND PRODUCT TRANSFER SYSTEM

Other Precautions:DO NOT PRESSURIZE, CUT WELD, BRAZE, SOLDER, DRILL,  
GRIND OR EMPTY CONTAINERS. THEY MAY EXPLODE AND CAUSE INJURY OR  
DEATH.

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

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

Ventilati

on: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.EYE-WASH FAC

Work Hygienic Practices:ADOPT GENERAL INDUSTRY'S HYGEINIC PRACTICES.

Supplemental Safety and Health

NSN IS FOR TYPE I,FORM D DEV

ELOPER OF MIL-I-25135 AND QPL-25135-15;THIS

DEVELOPER,AG-DH,IS OF TYPE I,FORM D UNDER QPL-25135-15;THE NSN  
REPLACES OLD NSN 6850-00-782-2728 WHICH WAS FOR GROUP VI UNDER QP  
L-25135-13 AND REVISION C OF MIL SPEC MIL-I-25135.

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

HCC:T4

Boiling Pt:B.P. Text:162F,72C

Vapor Pres:100MMHG@20

Vapor Density:4.55

Spec Gravity:1.32

Evaporation Rate & Reference:1.33 (WATER=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odo

r:MILKY LIQUID, SWEET ODOR  
Percent Volatiles by Volume:90+

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG CAUSTICS, REACTIVE METALS LIKE ALUMINUM

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

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

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

Waste Disposal Meth

ods:ASSURE CONFORMITY WITH APPLICABLE DISPOSAL

REGULATIONS DISPOSE OF ABSORBED MATERIAL AT AN APPROVED DISPOSAL  
SITE OR FACILITY. CAN BE RECLAIMED AND RECYCLED.

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