

AMERICAN GAS AND CHEMICAL COMPANY.,LTD. -- FLAW-FINDER AG-4B-FS PENETRANT --  
6850-01-268-6695

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

Product ID:FLAW-FINDER AG-4B-FS PENETRANT  
MSDS Date:01/03/1989  
FSC:6850  
NIIN:01-268-6695  
MSDS Number: BHKZN  
=== Responsible Party ===  
Company Name:AMERICAN GAS AND CHEMICAL COMPANY.,LTD.  
Address:220 PEGASUS AVENUE  
City:NORTHVALE  
State:NJ  
ZIP:07647-1904  
Country:US  
Info Ph  
one 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:DI-SEC-OCTYL PHTHALATE (DI-2-ETHYLHEXYL-PHTHALATE) (SARA  
III)  
CAS:117-81-7  
RTECS #:TI0350000  
Fraction by Wt: 60.0%

OSHA PEL:5 MG/M3/10 STEL  
ACGIH TLV:5 MG/M3; 9192  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingrid Name:TRIPHENYL PHOSPHATE  
CAS:115-86-6  
RTECS #:TC8400000  
Fraction by Wt: 1.0%  
OSHA PEL:3 MG/M3  
ACGIH TLV:3 MG/M3; 9192

Ingrid Name:PER MANUFACTURER'S MSDS,ITEM CONTAINS NO OTHER HAZARDOUS  
INGREDIENTS ACCORDING TO THE PROVISIONS GIVEN IN 29CFR1910.2000  
RTECS #:9999999ZZ  
Fraction by Wt: BALANCE

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

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

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

Health Hazards Acute and Chronic:ACUTE: CAUSES IRRITATION OF EYES,  
SKIN, RESPIRATORY TRACT; INGESTION MAY CAUSE NAUSEA,  
VOMITING,ETC...INGESTION OF SMALL QUANTITIES IS USUALLY NON-FATAL  
UNLESS ASPIRATION OCCURS. ASPIRATION MAY LEAD T O CHEMICAL  
PNEUMONITIS.

Explanation of Carcinogenicity:DI(2-ETHYLHEXYL)PHTHALATE IS LISTED AS  
AN ANIMAL CARCINOGEN, IT IS NOT LISTED AS HUMAN CARCINOGEN, PER MFR  
MSDS I

NFO.

Effects of Overexposure:INHALATION: DUE TO ITS LOW VOLATILITY, EXPOSURE  
TO THIS MATERIAL UNDER AMBIENT CONDITIONS IS NOT EXPECTED TO  
PRODUCE ADVERSE HEALTH EFFECTS FOLLOWING NORMAL WORKPLACE EXPOSURE;  
SKIN: CAN CAUSE SLIGHT IRRITATION; EYES: MAY CAUSE  
IRRITATION;INGESTION:CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA,  
VOMITING AND DIARRHEA.

Medical Cond Aggravated by Exposure:NONE CURRENTLY KNOWN.

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

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First Aid: INHALATION: REMOVE TO FRESH AIR: SEEK MEDICAL HELP. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH. GIVE OXYGEN IF NEEDED; 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 Method: PMCC

Flash Point: 252F/122C

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

Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. 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 IGNITION SOURCES: RECOVER FREE LIQUID; USE SUITABLE INERT ABSORBENT SUCH AS

SAND, CLAY, ETC. TO ABSORB LIQUID. KEEP MATERIAL OUT OF SEWERS/WATERWAYS. LG SPILLS MAY BE PICKED UP BY VACUUM PUMPS, SHOVELS & PLACE IN DRUMS.

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

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

Other Precautions: DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXP

USE 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 NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IF NEEDED.

Ventilation: GOOD, GENERAL VENTILATION IS SUFFICIENT.

Protective Gloves: NON ABSORBENT GLOVES

Eye Protection: SAFETY GLASSES

Other Protective Equipment: USE C

HEMICAL RESISTANT APRON OR OTHER IMPERVIOUS CLOTHING,IF NEEDED,TO AVOID CONTAMINATING REGULAR CLOTHING.EYE-WASH FAC  
Work Hygienic Practices:ADHERE TO GENERAL INDUSTRIAL HYGIEN PRACTICE AT THE WORKPLACE.

Supplemental Safety and Health  
NSN IS FOR TYPE I, METHOD B, LEVEL 4 PENETRANTS OF MIL-I-25135,REV E;  
PER QPL-25135-15, AG-4B-FS PENETRANT QUALIFIES THE REQUIREMENTS FOR TYPE I, METHOD B, LEVEL 4 MATERIAL.

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

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CC:T6  
Boiling Pt:B.P. Text:440F IBP  
Vapor Pres:1.0(AIR=1  
Spec Gravity:0.98  
Evaporation Rate & Reference:95%

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENT.  
Stability Condition to Avoid:EXTREME HEAT  
Hazardous Decomposition Products:BURNING CAN PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

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

Waste Disposal Methods:WASTE PRODUCT SHOULD BE INCINERATED OR DISPOSED OF IN AN APPROVED DISPOSAL SITE OR FACILITY.CAN BE RECLAIMED AND RECYCLED.ASSURE CONFORMITY WITH ALL APPLICABLE LOCAL,STATE AND FEDERAL DISPOSAL REGULAT IONS.DO NOT INCINERATE EMPTY/PARTIALLY FILLED CANS

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