

MET-L-CHEK COMPANY -- D-70 DEVELOPER -- 6850-00-782-2740

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

Product ID:D-70 DEVELOPER
MSDS Date:03/15/1989
FSC:6850
NIIN:00-782-2740
Kit Part:Y
MSDS Number: BVFRY
=== Responsible Party ===
Company Name:MET-L-CHEK COMPANY
Address:1639 EUCLID ST
City:SANTA MONICA
State:CA
ZIP:90404-3770
Country:US
Info Phone Num:310-450-1111
Emergency Phone Num:310-450-1111
CAGE:9873

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=== Contractor Identification ===
Company Name:MET-L-CHEK COMPANY
Address:1639 EUCLID ST
Box:00000
City:SANTA MONICA
State:CA
ZIP:90404
Country:US
Phone:310-450-1111/FAX 310452-4046
CAGE:98733

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

Ingred Name:ISOPROPYL ALCOHOL (SARA 313)
CAS:67-63-0
RTECS #:NT8050000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9495

Ingred Name:BUTANE
CAS:106-97-8
RTECS #:EJ4200000
Other REC Limits:NONE RECOMMEN

DED
OSHA PEL:800 PPM
ACGIH TLV:800 PPM; 9495

Ingred Name:PROPANE
CAS:74-98-6
RTECS #:TX2275000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1000 PPM
ACGIH TLV:ASPHYXIAN; 9495

Ingred Name:ISOBUTANE
CAS:75-28-5
RTECS #:TZ4300000
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) 5,045 MG/KG (RTECS)
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS,
RESPIRATORY & GI TRACTS. ACUTE- HARMFUL IF INHALED OR INGESTED. MAY
CAUSE CNS DEPRESSION. IN EXTREME CASES, UNCONSCIOUSNESS,
RESPIRATORY DEPRESSION MAY OCCUR. EYE & SKIN IRRITANT. CHRONIC-
UNKNOWN.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, HEADACHE, DIZZINESS, NAUSEA,
VOMITING
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS, EYE PROBLEMS OR IMPAIRED RESPI
RATORY FUNCTION MAY BE
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH
AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15
MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:IF
CONSCIOUS, INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point Method:TCC

Flash Point:53.0F,11.7C

Lower Limits:2.0

Upper Limits:2.0

Extinguishing Media:USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CARBON DIOXIDE. WARNING. FLAMMABLE.

Fire Fighting Procedures:CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR.

Unusual Fire/Explosion Hazard:CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. SOAK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH, VERMICULITE. PLACE IN CONTAINER. GROUND ALL HANDLING EQUIPMENT S. PREVENT LIQUID FROM ENTERING SEWERS OR WATERWAY

Neutralizing Agent:DILUTE WITH WATER

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED PLACE AWAY FROM SOURCES OF IGNITION AND INCOMPATIBLE MATERIALS. AVOID TEMPERATURES ABOVE 120F.

Other Precautions:AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY. LAUNDRY BEFORE REUSE. KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER EXPOSURE, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR OR SUPPLIED AIR RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:NATURAL RUBBER, NEOPRENE

Eye Protection:SAFETY GLASSES+FACE SHIELD/CHEM GOGGLES

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE.

Work Hygienic Practices:WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. WASH CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

KEY1:F1. THIS PRODUCT IS A KIT CONSISTING OF THREE PARTS. SEE PNI D FOR PENETRANT; PNI H FOR CLEANER, SAME NSN. THIS IS FOR DEVELOPER. FORMULA CHANGED. FOR PREVIOUS FORMULATIONS SEE PNI B AND C, SAME NSN.

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

HCC:V3

Boiling Pt:B.P. Text:180F,82C

Melt/Freeze Pt:M.P/F.P Text:-127F,-88C

Vapor Pres:33

Vapor Density:2.1

Spec Gravity:0.8

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:1.4

Solubility in Water:LIQUID PORTION SOL.

Appearance and Odor:WHITE, MILKY SUSPENSION, MILD ODOR.

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

Stability Indicator/Materials to Avoid:YES

DO NOT

STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120F.

Stability Condition to Avoid:AVOID HEAT, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products:MAY EMIT CARBON MONOXIDE, CARBON DIOXIDE.

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

Waste Disposal Methods:CONTRACT WITH LICENSED CHEMICAL WASTE DISPOSAL SERVICE. DISCHARGE, TREATMENT OR DISPOSAL IS SUBJECT TO FEDERAL, STATE OR LOCAL LAWS. DO NOT INCINERATE AEROS

OL CANS.

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