

MET-L-CHEK COMPANY -- D-70 PENETRANT DEVELOPER -- 6850-01-265-7234

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Product Identification  
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Product ID:D-70 PENETRANT DEVELOPER

MSDS Date:10/01/1999

FSC:6850

NIIN:01-265-7234

Status Code:A

MSDS Number: CKSPB

=== 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

:(800)424-9300

Preparer's Name:NOT PROVIDED

Chemtrec Ind/Phone:(800)424-9300

CAGE:98733

=== 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

Contract Num:SP0450-00-M-SG70

CAGE:98733

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Composition/Information on Ingredients  
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Ingred Name:ISOPROPANOL (2-PROPANOL)

CAS:67-63-0

RTECS #:NT8050000

Minimum % Wt:20.

Maximum % Wt:40.

Other REC Limits:

NOT PROVIDED  
OSHA PEL:980 MG/M3;400 PPM  
ACGIH TLV:983 MG/M3;400 PPM  
ACGIH STEL:1230 MG/M3;500 PPM

Ingrid Name:ISOBUTANE (PROPELLANT)  
CAS:75-28-5  
RTECS #:TI4300000  
Minumum % Wt:40.  
Maxumum % Wt:60.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

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

LD50 LC50 Mixture:NOT PROVIDED  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: EYE CONTACT:  
LIQUID CAUSES SEVERE IRRITATION, REDNESS, TEARING AND SWELLING OF  
EYES. SKIN CONTACT: MAY CAUSE SKIN IRRITATION. PROLONGED OR  
REPEATED CONTACT MAY DRY OUT THE SK IN DUE TO DEFATTING OF SKIN.  
SYMPTOMS MAY INCLUDE REDNESS, BURNING, AND CRACKING OF SKIN.  
SWALLOWING: SMALL AMOUNTS MAY NOT PRODUCE HARMFUL EFFECTS. LARGE  
AMOUNTS MAY BE HARMFUL. INHALATION: SMALL AMO UNTS MAY NOT BE  
HARMFUL. LARGE AMOUNTS MAY BE HARMFUL.

Explanation of Carcinogenicity:THIS MATERIAL IS NOT KN  
OWN TO CONTAIN

ANY CONSTITUENTS IN REPORTABLE AMOUNTS LISTED AS CARCINOGENS BY THE  
INTERNATIONAL AGENCY FOR RESEARCH FOR CANCER, THE NATIONAL  
TOXICOLOGY PROGRAM OR OSHA.

Effects of Overexposure:STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING,  
DIAHRREA), IRRITATION (NOSE, THROAT, AIRWAYS), CENTRAL NERVOUS  
SYSTEM DEPRESSION (DIZZINESS, FATIGUE, HEADACHE, UNCONSCIOUSNESS).

Medical Cond Aggravated by Exposure:PREEXISTING DISORDERS OF THE  
FOLLOWING ORGANS (OR ORGAN SYSTEMS) MAY  
BE AGGRAVATED BY EXPOSURE  
TO THIS MATERIAL: LUNG (FOR EXAMPLE, ASTHMA-LIKE CONDITIONS),  
KIDNEY.

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

First Aid:EYES: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES. HOLD  
EYELIDS OPEN. SEEK MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED  
CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS  
PERSIST, SEEK ME DICAL ATTENTION. LAUNDER CLOTHING BEFORE REUSE.  
CLEAN SHOES BEFORE REUSE. SWALLOWING: CALL A PHYSI

CIAN IMMEDIATELY.

IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THEIR LEFT SIDE WITH THE HEAD DOWN. DO NOT LEAVE THE INDIVIDUAL UNATTENDED. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

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

Flash Point Method:TCC

Flash Point:FLAMMABLE AEROSOL

Autoignition Temperature

mp:=-398.9C, 750.F

Lower Limits:2.0 %

Extinguishing Media:DRY CHEMICAL, ALCOHOL FOAM OR CARBON DIOXIDE.

Fire Fighting Procedures:WATER MAY BE INEFFECTIVE. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND TO

DISTANT IGNITION SOURCE AND FLASH BACK.

SEALED CONTAINERS MAY RUPTURE WHEN HEATED.

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

Spill Release Procedures:VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. ISOLATE HAZARD AREA. WEAR PROTECTIVE GEAR, KEEP UNNECESSARY PERSONNEL AWAY. CONTAIN AND RECOVER LIQUID WHEN POSSIBLE. USE NON-SPARKING TOOLS. COLLECT LIQUID IN AN APPROPRIATE CONTAINER AND ABSORB WITH AN INERT MATERIAL SUCH AS VERMICULITE, DRY SAND

OR EARTH; DO NOT USE COMBUSTIBLE MATERIALS. PLACE IN A CHEMICAL WASTE CONTAINER. DO NOT FLUSH TO SEWER!

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY WELL-VENTILATED LOCATION, AWAY FROM AREAS WHERE FIRE HAZARD OR IGNITION SOURCES MAY EXIST. OUTSIDE OR DETACHED STORAGE IS PREFERRED. CONTAINERS SHOULD BE GROUNDED FOR TRANSFERS TO AVOID

STATIC SPARKS. STORE AND USE IN NOT SMOKING AREA.

Other Precautions:CONTAINER MAY BE HAZARDOUS WHEN EMPTY SINCE RESIDUE LIQUID AND VAPORS MAY BE PRESENT. USE NONSPARKING TOOLS. ANY USE OF THIS PRODUCT IN ELEVATED TEMPERATURE PROCESSING SHOULD BE THOROUGHLY EVALUATED T O ESTABLISH AND MAINTAIN SAFE OPERATING CONDITIONS.

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

Respiratory Protection:PERSONAL RESPIRATORS (NIOSH APPROVED) IF EXPOSURE LIMIT IS EXCEED ED.

Ventilation:A SYSTEM OF LOCAL OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURE BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS PREFERRED.

Protective Gloves:WEAR RESISTANT GLOVES.

Eye Protection:CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED.

Other Protective Equipment:EYE WASH AND QUICK-DRENCH FACILITIES SHOULD BE NEAR WORK AREA. TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

Work Hyg

enic Practices:NOT PROVIDED

Supplemental Safety and Health

NONE

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

HCC:V3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=82.2C, 180.F

Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:33.0MMHG@68F

Vapor Density:2.07

Spec Gravity:0.8565

VOC Pounds/Gallon:710

pH:NO DATA

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:1.7 (N-BUTYL ACETATE=1)

Solubility in Water:90%

Appearance and Odor:WHI

RE, MILKY SUSPENSION IN LIQUID; SLIGHT  
ETHANOL/ACETONE LIKE ODOR.

Percent Volatiles by Volume:90

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

DO NOT USE WITH ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120 F.

Stability Condition to Avoid:STABLE UNDER ORDINARY CONDITIONS OF USE  
AND STORAGE.

Hazardous Decomposition Products:MAY FORM CARBON DIOXIDE AND CARBON  
MONOXIDE.

===== Toxicological Information =====

Toxicological Information:NO DATA.

===== Ecological Information =====

Ecological:NO DATA AVAILABLE ON PRODUCT.

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

Waste Disposal Methods:PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT  
MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL  
REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE  
OF CONTAINER AND UN USED  
CONTENTS IN ACCORDANCE WITH FEDERAL, STATE  
AND LOCAL REQUIREMENTS. NOTE: MSDS INFORMATION IS FOR AS SUPPLIED  
LIQUID.

===== MSDS Transport Information =====

Transport Information:DOT INFORMATION - 49CFR 172.101 SHIPPING NAME:  
CONSUMER COMMODITY. LABEL: ORM-D. HAZARD CLASS: NONE.  
IDENTIFICATION NUMBER: NONE. PACKING GROUP: NONE. REPORTABLE  
QUANTITY - 49 CFR 172.101 - NOT APPLICABLE.

===== Regulatory Information =====

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SARA Title III Information:SARA 302 COMPONENTS- 40 CFR 355 APPENDIX A:  
NONE. SARA SECTION 311/312 HAZARD CLASS- 40 CFR 370.2: IMMEDIATE X,  
DELAYED X, FIRE X, REACTIVE NO, SUDDEN RELEASE OF PRESSURE NO. SARA  
313 COMPONENTS- 40 C FR 372.2: NONE. CERCLA RQ- 49 CFR 302(A): NONE  
LISTED.

Federal Regulatory Information:TSCA: LISTED.

State Regulatory Information:CALIFORNIA PROPOSITION 65 REQUIRES  
FOLLOWING STATEMENT: PRODUCT MAY CONTAIN DETECTABLE AMOUNTS OF  
SUBSTANCE

S KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. NEW  
JERSEY RTK LABEL- ISOPROPYL ALCOHOL 6 7-63-0. PENNSYLVANIA RTK  
LABEL- 2-PROPANOL 67-63-0.

===== Other Information =====

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