

D-70 PENETRANT DEVELOPER (SEE SUPPL)

MSDS Number

CLDNT

National Stock Number

6850-00-145-0255

Product Name

D-70 PENETRANT DEVELOPER (SEE SUPPL)

Manufacturer

MET L CHEK COMPANY

Product Identification

Product ID:D-70 PENETRANT DEVELOPER (SEE SUPPL)

MSDS Date:01/01/2001

FSC:6850

NIIN:00-145-0255

Status Code:A

Kit Part:Y

MSDS Number: CLDNT

Responsible Party

MET-L-CHEK COMPANY

1639 EUCLID ST

SANTA MONICA , CA 90404

US

Emergency Phone: 800-424-9300

Info Phone: 310-450-1111/FAX 310452-4046

Cage: 98733

Contractor

MET-L-CHEK COMPANY

00000

SANTA MONICA, CA 90404

US

310-450-1111/FAX 310452-4046

Cage: 98733

Ingredients

ISOPROPANOL (2-PROPANOL)

CAS: 67-63-0

RTECS: NT8050000

OSHA PEL980 MG/M3;400 PPM

ACGIH TLV: 983 MG/M3;400 PPM

ISOBUTANE (PROPELLANT)

CAS: 75-28-5

RTECS: TI4300000

Hazards

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE: LIQUID CAUSES SEVERE IRRITATION, REDNESS, TEARING AND SWELLING OF EYES. SKIN: MAY CAUSE SKIN IRRITATION. PROLONGED/REPEATED CONTACT MAY DRY OUT THE SKIN 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 AMOUNTS MAY NOT BE HARMFUL. LARGE AMOUNTS MAY BE HARMFUL.

Explanation of Carcinogenicity:THIS MATERIAL IS NOT KNOWN TO CONTAIN ANY CONSTITUENTS IN REPORTABLE AMOUNTS LISTED AS CARCINOGENS.
Effects of Overexposure:STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA), IRRITATION (NOSE, THROAT, AIRWAYS), CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, FATIGUE, HEADACHE, UNCONSCIOUSNESS).

First Aid

First Aid:EYE: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MIN. HOLD EYELIDS OPEN. SKIN: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP & WATER. LAUNDRY CLOTHING BEFORE REUSE. CLEAN SHOES BEFORE REUSE. SWALLOWING: CALL PHYSICIAN IMMEDIATELY. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THEIR LEFT SIDE WITH HEAD DOWN. DO NOT LEAVE INDIVIDUAL UNATTENDED. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION FOR ROUTES AS NEEDED.

Fire Fighting

Flash Point Method:TCC
Flash Point:=-11.7C, 53.F
BULK
Autoignition Temp:=-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

Spill Release Procedures:VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. ISOLATE HAZARD AREA. WEAR PROTECTIVE GEAR, KEEP UNNECESSARY PERSONNEL AWAY. CONTAIN/RECOVER LIQUID WHEN POSSIBLE. USE NON-SPARKING TOOLS. COLLECT LIQUID IN AN APPROPRIATE CONTAINER OR ABSORB WITH AN INERT MATERIAL SUCH AS VERMICULITE, DRY SAND, OR EARTH; DO NOT USE COMBUSTIBLE MATERIALS, AND PLACE IN A CHEMICAL WASTE CONTAINER. DON'T FLUSH TO SEWER

Handling

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE IN 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 NO SMOKING AREA.
Other Precautions:STORAGE CONT: CONTAINERS MAY BE HAZARDOUS WHEN EMPTY SINCE RESIDUE LIQUID/VAPOR MAY BE PRESENT. USE NON-SPARKING TOOLS. ANY USE OF THIS PRODUCT IN ELEVATED TEMPERATURE PROCESSING SHOULD BE THOROUGHLY EVALUATED TO ESTABLISH/MAINTAIN SAFE OPERATING CONDITIONS.

Exposure Controls

Respiratory Protection:PERSONAL RESPIRATORS (NIOSH APPROVED) IF EXPOSURE LIMIT IS EXCEEDED.
Ventilation:LOCAL OR GENERAL EXHAUST IS RECOMMENDED. LOCAL EXHAUST IS

PREFERRED TO CONTROL EMISSIONS OF CONTAMINANT AT ITS SOURCE.

Protective Gloves:RESISTANT GLOVES

Eye Protection:CHEMICAL SPLASH GOGGLES, SAFETY GLASSES OR FULL
FACESHIELD

Other Protective Equipment:EYE WASH AND QUICK-DRENCH FACILITIES. WEAR
IMPERVIOUS CLOTHING AND BOOTS.

Supplemental Safety and Health

THIS IS PART OF KIT CONTAINING: D-70; E-59A AND VP-31A. GENERIC ID:

AMS-2644 PENETRANT DEVELOPER FORMS D & E.

Chemical Properties

HCC:V3

Boiling Pt:=82.2C, 180.F

B.P. Text:INITIAL

Vapor Pres:33.0MMHG

Vapor Density:2.07

Spec Gravity:0.856

VOC Pounds/Gallon:710

pH:NO DATA

Evaporation Rate & Reference:1.7 (NBUAC=1)

Solubility in Water:90%

Appearance and Odor:WHITE, MILKY SUSPENSION IN LIQUID; SLIGHT
ETHANOL/ACETONE LIKE ODOR.

Percent Volatiles by Volume:90%

Stability

Stability Indicator/Materials to Avoid:YES

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

Hazardous Decomposition Products:CARBON DIOXIDE AND CARBON MONOXIDE

Disposal

Waste Disposal Methods:PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT
MAY CHANGE ITS WASTE MANAGEMENT OPTIONS. STATE & LOCAL DISPOSAL
REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS. DISPOSE
OF CONTAINER & UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE &
LOCAL REQUIREMENTS. NOTE: MSDS INFORMATION IS FOR AS S UPPLIED
LIQUID.

Toxicology

Toxicological Information:NO DATA

Ecology

Ecological:NO DATA AVAILABLE ON PRODUCT.

Transport

Transport Information:DOT INFORMATION- 49 CFR 172.101 SHIPPING NAME:
CONSUMER COMMODITY.

Regulatory

SARA Title III Information:SARA 302 COMPONENTS - 40 CFR 355 APPENDIX A:
NONE. SECTION 311/312 HAZARD CLASS - 40 CFR 370.2: IMMEDIATE,
DELAYED, & FIRE. SARA 313 COMPONENTS - 40 CFR 372.65: NONE.

Federal Regulatory Information:TSCA: LISTED. CERCLA RQ - 49 CFR
302.4(A): NONE LISTED.

State Regulatory Information:CALIFORNIA PROPOSITION 65 REQUIRES THE
FOLLOWING STATEMENT- PRODUCT MAY CONTAIN DETECTABLE AMOUNTS OF
SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. NEW
JERSEY RTK LABEL- ISOPROPYL ALCO HOL 67-63-0. PENNSYLVANIA RTK
LABEL- 2-PROPANOL 67-63-0.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their

particular situation.