



PENETRANT PROFESSOR APPROVED

MSDS for D-702 Developer

NFPA rating	Bulk	Aerosol
Health	1	NA
Flammability	3	NA
Reactivity	0	NA
WHMIS (Canada)	B2,D2B	NA

April 27, 2007

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1. IDENTIFICATION

Company: Met-L-Chek Company

Address: 1639 Euclid Street, Santa Monica, California 90404 USA

Telephone: 310-450-1111(Off-Hour Emergency: Chemtrec 1-800-424-9300).

Generic ID: ASTM E-1417, Type II, Methods C, Form f, High Temperature Penetrant Developer.

Product Use: NDT Penetrant Inspection per ASTM E-1417.

2. COMPOSITION

Ingredients	CAS #	% by Weight (in bulk)	% by Weight (in aerosol)
Isopropanol (2-propanol)	67-63-0	40-50	na

3. HEALTH HAZARDS: Flammable Liquid & Vapor

Eye Contact: Liquid causes severe irritation, redness, tearing and swelling of eyes.

Skin Contact: May cause skin irritation with prolonged or repeated contact.

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.

Over Exposure: Stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, fatigue, headache).

4. FIRST AID

Eyes: Flush eyes with clean water holding eyelids open. Seek medical attention.

Skin: Remove contaminated clothing. Wash exposed area with soap and water. Apply moisturizing lotion. Launder clothing before reuse. Clean shoes before reuse.

Swallowing: Do not induce vomiting. Small amounts are not expected to cause significant harm, call a physician.

Inhalation: Remove to fresh air.

5. FIRE HAZARDS

Flash Point: 22.7°C (73°F) PMCC

Explosive Limit: Not established

Autoignition Temperature: >398.8°C (>750°F)

Hazardous Products of Combustion: May form carbon dioxide and carbon monoxide.

Fire and Explosion Hazards: Vapors are heavier than air. Sealed containers may burst when heated.

Extinguishing Media: Dry chemical, foam or carbon dioxide.

Fire Fighting Instructions: Water may be ineffective. Water spray may be used to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Spill: Ventilate area. Remove all sources of ignition. Wear protective gear. 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. Do not flush to sewer.

7. HANDLING and STORAGE

Handling: Protect against physical damage. Store in a cool, dry well-ventilated location, away from areas where fire hazard or ignition sources may exist. Store and use in NO SMOKING area. Containers may be hazardous when empty since residue liquid and vapors may be present. Use non-sparking tools. Ground containers when transferring product.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

Eye Protection: Chemical splash goggles, safety glasses are advised.

Skin Protection: Wear resistant gloves, impervious clothing and boots are suggested as well.

OSHA Exposure Limits: (VPEL): 400 ppm (TWA), 500 ppm (STEL).

ACGIH Threshold Limit:(TLV): 400 ppm (TWA), 500 ppm (STEL).

Ventilation System: A system of local or general exhaust is recommended to keep employee exposure below the airborne exposure limits. Personal Respirators (NIOSH approved) if exposure limit is exceeded.

MSDS- D-702-1/4/07

Met-L-Chek Company, 1639 Euclid Street, Santa Monica, California 90404, U.S.A.

Phone: 310-450-1111

Fax: 310-452-4046

E-Mail: info@met-l-chek.com





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9. PHYSICAL PROPERTIES

Initial Boiling Point: 82.2°C (180°F) @ 760 mm Hg.
 Specific Gravity: 0.856 @ 60°F
 Percent Volatiles: 90 %, <VOC's-400 gr/L
 Appearance: White, milky suspension in clear liquid.

Vapor Pressure : 33 mm Hg @ 68° F
 Specific Vapor Density Air=1: 2.07
 Evaporation Rate (Ethyl Ether=1): 1.7
 Solubility in Water: 90 %

10. STABILITY and REACTIVITY

Stable under ordinary conditions of use and storage.
 Hazardous Polymerization: Will not occur.
 Incompatibilities: Avoid contact with acetaldehyde, acids, chlorine, ethylene oxide, isocyanates and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.

12. ECOLOGICAL INFORMATION

No data on product.

13. DISPOSAL CONSIDERATION

Dispose of container and unused contents with a licensed waste facility. Empty containers may contain flammable residue and vapors.

14. TRANSPORTATION

DOT Information- 49CFR172.101

	Bulk	Aerosol
Shipping name:	Isopropanol	na
Label:	Flammable liquid	na
Hazard class:	3	na
Identification #:	UN1219	na
Packing Group:	II	na

IATA

	Bulk	Aerosol
Shipping name:	Isopropanol	na
Label:	Flammable liquid	na
Hazard class:	3	na
Identification #:	UN1219	na
Packing Group:	II	na

15. REGULATORY INFORMATION

TSCA: Listed
 CERCLA RQ- 49CFR302.4(a): None listed
 SARA 302 Components-40CFR355 appendix A: None
 Section 311/312 Hazard Class-40CFR370.2: Immediate (X), Delayed (X), Fire (X), Reactive (), Sudden release of pressure ()
 SARA 313 components-40CFR372.65: None.
 California Proposition 65-Not known to contain any listed materials.
 New Jersey RTK label- Isopropyl Alcohol CAS# 67-63-0
 Pennsylvania RTK label- 2-propanol CAS# 67-63-0

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Supersedes MSDS dated 1/3/2005

MSDS- D-702-2/4/07

