



**PENETRANT PROFESSOR APPROVED**

April 27, 2007

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# MSDS for VP-31A Penetrant

NFPA rating	Bulk	Aerosol
Health	1	1
Flammability	1	4
Reactivity	0	0
WHMIS (Canada)	D2B	A, B5,D2B

## 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: AMS-2644 Type II, Methods B & C, Penetrant.  
 Product Use: NDT Fluorescent Penetrant Inspection per ASTM E-1417

## 2. COMPOSITION

Ingredients	CAS #	% by Weight (in bulk)	% by Weight (in aerosol)
Naphthenic light hydrotreated distillate	64742-53-6	40-60	40-50
Propellant(mixed isopropane & butane)	74-98-6 & 106-97-8		50-60

## 3. HEALTH HAZARDS

Eye Contact: Liquid may cause mild irritation, redness, tearing and stinging 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.  
 Inhalation: Remove to fresh air.

## 5. FIRE HAZARDS

Flash Point: >93.3°C (>200°F) PMCC  
 Explosive Limit: not established  
 Autoignition Temperature: not established  
 Hazardous Products of Combustion: May form carbon dioxide and carbon monoxide.  
 Fire and Explosion Hazards: 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. Empty containers may contain residue liquid and vapors.

## 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): 5 mg/M (TWA), 5 mg/M (STEL)  
 ACGIH Threshold Limit:(TLV):10 mg/M (TWA), 10 mg/M (STEL)  
 Ventilation System: A system of local or general exhaust is recommended to keep employee exposure below the airborne expxsure limits. Personal Respirators (NIOSH approved) if exposure limit is exceeded.

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**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: >204.4°C (>400°F) @ 760 mm Hg.  
 Specific Gravity: 0.862 @ 60°F  
 Density: 862.7 gr/L (7.1 lbs/Gal)  
 Appearance: dark red liquid.

Vapor Pressure : < 0.1mm Hg.  
 Specific Vapor Density Air=1:na  
 Evaporation Rate (Ethyl Ether=1): NA  
 Solubility in Water: insolubl

## 10. STABILITY and REACTIVITY

Stable under ordinary conditions of use and storage.  
 Hazardous Polymerization: Will not occur.  
 Incompatibilities: Avoid contact with strong oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

No data available on product.

## 12. ECOLOGICAL INFORMATION

No data available on product.

## 13. DISPOSAL CONSIDERATION

Dispose of container and unused contents with a licensed waste facility as a non-hazardous oily waste.

## 14. TRANSPORTATION

### DOT Information- 49CFR172.101

	<u>Bulk</u>	<u>Aerosol</u>
Shipping name:	Stain	Consumer commodity
Label:	none	ORM-D
Hazard class:	none	ORM-D
Identification #:	none	none
Packing Group:	none	none

Not regulated by D.O.T. in containers less than 119 gallons (450 L) capacity.

### IATA

	<u>Bulk</u>	<u>Aerosol</u>
Shipping name:	not regulated	Aerosols, flammable
Label:	none	Flammable gas
Hazard class:	none	2.1
Identification #:	none	UN1950
Packing Group:	none	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 ( ), Reactive ( ), Sudden release of pressure ( )  
 SARA 313 components-40CFR372.65: None.  
 California Proposition 65-Not known to contain any listed materials.

## 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 1/24/2006

MSDS- VP-31A-2/4/07

