



MATERIAL SAFETY DATA SHEET

REVISION DATE: 03/05/2010 **REVISION NUMBER:** 3
DATE PRINTED: 03/05/2010 **PREPARED BY:** EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **110 VMR, Jelled Varnish Mark Remover**
PRODUCT CODE: 117664

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 2/2 **Fire:** 3/3
Reactivity: 0/0 **Special/Protective Equipment:** ALK/B

2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION: May cause delayed lung damage.
SKIN CONTACT: May be absorbed through the skin and product effects similar to those caused by inhalation and/or ingestion.

INHALATION: Prolonged contact may lead to irritation and dermatitis. May cause skin defatting. Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.
EYE CONTACT: Causes eye irritation.
CHRONIC EFFECTS: Unconsciousness Liver and kidney damage. Central nervous system disorders. Narcosis May cause delayed lung damage. Cyanosis (blue tissue condition, nails, lips, and/or skin).
EFFECTS/CARCINOGENICITY: Contains materials known to cause cancer, birth defects, and other reproductive harm.
CARCINOGENIC INGREDIENTS: Toluene.
ROUTES OF ENTRY: Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELs
TOLUENE 108-88-3	20 - 30	20 ppm	200 ppm
PROPANE 74-98-6	10 - 15	1000 ppm	1000 ppm 1800 mg/m ³
BUTANE [1], ISOBUTANE [2] 106-97-8	8 - 10	1000 ppm	Not applicable
ACETONE 67-64-1	5 - 8	500 ppm	1000 ppm 2400 mg/m ³
2-Butoxy ethanol 111-76-2	3 - 5	20 ppm	240 mg/m ³ 50 ppm
Diethylene glycol butyl ether 112-34-5	3 - 5	Not applicable	Not applicable
9-Octadecanoic acid 112-80-1	1 - 3	NA	NA

4. FIRST AID MEASURES

INGESTION: Get immediate medical attention. Rinse mouth with water many times. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

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4. FIRST AID MEASURES

SKIN:	Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention if irritation persists.
INHALATION:	If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
EYES:	Remove contact lenses. In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
NOTES TO PHYSICIAN:	None.

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F):	- 156° F (Propellant) (C): -104.4° C (Propellant)
METHOD:	None

FLAMMABLE LIMITS IN AIR

- LOWER (%):	No data
- UPPER (%):	No data

SENSITIVITY TO MECHANICAL IMPACT(Y/N):

NO

SENSITIVITY TO STATIC DISCHARGE:

Sensitivity to static discharge is not expected.

SUITABLE EXTINGUISHING MEDIA:

Water fog, carbon dioxide, foam, dry chemical.

FIRE FIGHTING PROCEDURES:

Toxic vapors are emitted in a fire condition. Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed containers with water spray. Do not allow runoff to enter sewers or public watercourses.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:

SMALL SPILLS:

Pick up with absorbant material.

LARGE SPILLS:

Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Keep out of drains, sewers, streams, or other bodies of water.

PERSONAL PRECAUTIONS:

Not applicable

ENVIRONMENTAL PRECAUTIONS:

Not applicable

METHODS FOR CLEANING UP:

Not applicable

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Pressurized container. Do not puncture or incinerate container. Do not store near heat, sparks or flame.

Avoid contact with eyes, skin and clothing.

Avoid prolonged exposure. Store in a cool, dry area.

Avoid exposure to long periods of sunlight. Do not store above 120 F. Use only with adequate ventilation.

OTHER PRECAUTIONS:

Keep out of reach of children. Read and follow label instructions.

SPECIFIC USE(S):

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:



EXPOSURE CONTROLS:

None known.

RESPIRATORY PROTECTION:

Wear self-contained breathing apparatus. If product is used in a manner which creates vapor or mist above recommended exposure limits, a NIOSH/MSHA approved organic respirator may be needed in the absence of proper environmental controls.

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PROTECTIVE GLOVES:	Rubber or plastic gloves recommended to minimize skin contact.
EYE PROTECTION:	Safety Glasses. Goggles.
OTHER PERSONAL PROTECTION EQUIPMENT:	Appropriate protective clothing as needed to prevent skin contact.
VENTILATION:	General mechanical or local exhaust as needed to maintain exposure below TLV or PEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Compressed liquefied gas.	
BOILING POINT (F):	179.6° F estimated	(C) 82.2° C estimated
VAPOR PRESSURE:	60 - 75 psig @ 70°F	
VAPOR DENSITY (AIR=1):	Not established	
SOLUBILITY IN WATER:	Partially	
SPECIFIC GRAVITY:	0.8229 estimated	
VOC Content (%):	Not established	
VOV Content (%):	Not established	
EVAPORATION RATE:	Not established	
PH:	12.42 - 13.42	

10. STABILITY AND REACTIVITY

STABILITY DATA:	Risk of ignition. Instability caused by elevated temperatures. May form explosive peroxides.
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Irritating fumes. Toxic fumes. Oxides of Nitrogen.
INCOMPATIBILITY (MATERIALS TO AVOID):	None known.
CONDITIONS/HAZARDS TO AVOID:	Keep away from heat, sparks and flame.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Not Established
EFFECTS OF CHRONIC EXPOSURE:	Not established.
OTHER TOXIC EFFECTS:	Not established.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	No data at this time
CHEMICAL FATE INFORMATION:	No data at this time.
MOBILITY:	Not applicable.
PERSISTENCE/DEGRADABILITY:	Not applicable
BIOACCUMULATIVE POTENTIAL:	Not applicable
OTHER ADVERSE EFFECTS:	Not applicable

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:	Dispose in accordance with Federal, State and Local regulations.
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14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

15. REGULATORY INFORMATION

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PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
TOLUENE 108-88-3	20 - 30	Listed	Listed	Listed	Developmental
PROPANE 74-98-6	10 - 15	Listed	Listed	Listed	Not Listed
BUTANE [1], ISOBUTANE [2] 106-97-8	8 - 10	Listed	Listed	Listed	Not Listed
ACETONE 67-64-1	5 - 8	Listed	Listed	Listed	Not Listed
2-Butoxy ethanol 111-76-2	3 - 5	Listed	Listed	Listed	Not Listed
Diethylene glycol butyl ether 112-34-5	3 - 5	Listed	Listed	Listed	Not Listed
9-Octadecanoic acid 112-80-1	1 - 3	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
TOLUENE 108-88-3	20 - 30	1000 lb 454 kg	Not Listed	= 1.0 % de minimis concentration
PROPANE 74-98-6	10 - 15	Not Listed	Not Listed	Not Listed
BUTANE [1], ISOBUTANE [2] 106-97-8	8 - 10	Not Listed	Not Listed	Not Listed
ACETONE 67-64-1	5 - 8	2270 kg 5000 lb	Not Listed	Not Listed
2-Butoxy ethanol 111-76-2	3 - 5	Not Listed	Not Listed	Not Listed
Diethylene glycol butyl ether 112-34-5	3 - 5	Not Listed	Not Listed	Not Listed
9-Octadecanoic acid 112-80-1	1 - 3	Not Listed	Not Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	Canada WHMIS:
TOLUENE 108-88-3	20 - 30	Listed
PROPANE 74-98-6	10 - 15	Listed
BUTANE [1], ISOBUTANE [2] 106-97-8	8 - 10	Listed
ACETONE 67-64-1	5 - 8	Listed
2-Butoxy ethanol 111-76-2	3 - 5	Listed
Diethylene glycol butyl ether 112-34-5	3 - 5	Listed
9-Octadecanoic acid 112-80-1	1 - 3	Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	MARTK:
TOLUENE 108-88-3	20 - 30	Listed
PROPANE 74-98-6	10 - 15	Listed
BUTANE [1], ISOBUTANE [2] 106-97-8	8 - 10	Listed
ACETONE 67-64-1	5 - 8	Listed
2-Butoxy ethanol 111-76-2	3 - 5	Listed

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

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PRODUCT COMPOSITION CAS#	%	NJRTK:
TOLUENE 108-88-3	20 - 30	Listed
PROPANE 74-98-6	10 - 15	Listed
BUTANE [1], ISOBUTANE [2] 106-97-8	8 - 10	Listed
ACETONE 67-64-1	5 - 8	Listed
2-Butoxy ethanol 111-76-2	3 - 5	Listed

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

PRODUCT COMPOSITION CAS#	%	PARTK:
TOLUENE 108-88-3	20 - 30	Listed
PROPANE 74-98-6	10 - 15	Listed
BUTANE [1], ISOBUTANE [2] 106-97-8	8 - 10	Listed
ACETONE 67-64-1	5 - 8	Listed
2-Butoxy ethanol 111-76-2	3 - 5	Listed
9-Octadecanoic acid 112-80-1	1 - 3	Listed

16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

*** END OF MSDS ***