

# MATERIAL SAFETY DATA SHEET

VMI OptoClear Cartridge

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MSDS DATE: 07 / 27 / 09

Schedule B Code: 8424.20.9000

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** VMI OptoClear Cartridge

**SYNONYMS:** Anti-Static Liquid Conditioner

**PRODUCT CODES:**

**MANUFACTURER:** VenMill Industries Incorporated

**DIVISION:**

**ADDRESS:** 670 Douglas Street, Uxbridge, MA 01569

**EMERGENCY PHONE:** (508)278-0091

**CHEMTREC PHONE:**

**OTHER CALLS:** (508)278-0014

**FAX PHONE:** (508)278-0005

**CHEMICAL NAME:** Opto-Clear Formulation\_Rev-01

**CHEMICAL FAMILY:** Cationic conditioner

**CHEMICAL FORMULA:** Proprietary

**PRODUCT USE:** VenMill Buffing Units

**PREPARED BY:** VenMill Industries Incorporated

**SECTION 1 NOTES:**

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

### INGREDIENT:

Isopropyl Alcohol \*(In such small quantities we are exempt from IMO declaration)

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
67-63-0	>50%	>50%	No
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	400		
OSHA PEL STEL :			
OSHA PEL CEILING:			
ACGIH TLV-TWA:	200		
ACGIH TLV STEL:	400		
ACGIH TLV CEILING:			

**SECTION 2 NOTES:**

(In such small quantities we are exempt from IMO declaration)

There is only 15 milliliters of liquid in each cartridge and the propellant is Dupont 134 which is non flammable. Because there is such a small quantity in each cartridge these are non hazardous.

## SECTION 3: HAZARDS IDENTIFICATION

There is only 15 milliliters of liquid in each cartridge and the propellant is Dupont 134 which is non flammable. Because there is such a small quantity in each cartridge these are non hazardous.

**EMERGENCY OVERVIEW: WARNING! Flammable liquid and vapor.**

Harmful if swallowed or inhaled. Causes irritation to eyes and respiratory tract. Affects central nervous system, may be harmful if absorbed through skin.

### **POTENTIAL HEALTH EFFECTS**

**EYES:** Contact with the eyes causes irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

**SKIN:** Skin contact may produce irritation on skin. May be absorbed through the skin.

**INGESTION:** Ingestion of these products may produce gastric irritation, drowsiness, unconscious, and death.

**INHALATION:** Inhalation of vapors may irritate the respiratory tract. Exposure to high concentrations may cause dizziness, drowsiness, headache, staggering, unconsciousness and possible death.

**ACUTE HEALTH HAZARDS:** None

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**CHRONIC HEALTH HAZARDS:** None

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

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**CARCINOGENICITY**

OSHA: No

ACGIH: No

NTP: No

IARC: No

OTHER: No

**SECTION 3 NOTES:**

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**SECTION 4: FIRST AID MEASURES**

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**EYES:** Flush affected areas with water for at least 15 minutes, seek medical attention

**SKIN:** Wash affected area with soap, and rinse with water, if irritation develops see medical attention

**INGESTION:** If ingested, seek medical assistance or contact local poison control center

**INHALATION:** If signs and symptoms of irritation occur, remove subject from the area. Perform artificial respiration and/or seek medical assistance if necessary

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:**

**SECTION 4 NOTES:**

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**FLAMMABLE LIMITS IN AIR, UPPER:** 12.7 (isopropyl alcohol) **\*(In such small quantities we are exempt from IMO declaration)**  
**(% BY VOLUME) LOWER:** 2.0

**FLASH POINT:** (isopropyl alcohol)

F: 54

C: 12

**METHOD USED:** CC

**AUTOIGNITION TEMPERATURE:**

F:

C:

**NFPA HAZARD CLASSIFICATION** not applicable

HEALTH:

FLAMMABILITY:

REACTIVITY:

OTHER:

**HMIS HAZARD CLASSIFICATION** not applicable

HEALTH:

FLAMMABILITY:

REACTIVITY:

PROTECTION:

**EXTINGUISHING MEDIA:** Water spray, drychemical, alcohol foam, or carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:** In the event of fire, wear full protective clothing.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** none

**HAZARDOUS DECOMPOSITION PRODUCTS:** Some components of this product may decompose when exposed to flame, very high temperatures, or by reaction with incompatible materials. Fires or explosions involving these products may emit carbon monoxide, smoke, and/or irritant gases as decomposition byproducts.

**SECTION 5 NOTES:**

There is only 15 milliliters of liquid in each cartridge and the propellant is Dupont 134 which is non flammable. Because there is such a small quantity in each cartridge these are non hazardous.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### ACCIDENTAL RELEASE MEASURES:

Ventilate area of leak or spill. Remove all sources of ignition. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an insert material. Do not flush into sewer.

### SECTION 6 NOTES:

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Store in a cool well ventilated area.

**OTHER PRECAUTIONS:** None

### SECTION 7 NOTES:

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### ENGINEERING CONTROLS:

**VENTILATION :** Provide adequate local or general exhaust to keep employee exposures below the airborne exposure limits.

**RESPIRATORY PROTECTION:** If airborne exposure limits are to be exceeded, use a NIOSH approved respirator.

**EYE PROTECTION:** Chemical safety goggles.

**SKIN PROTECTION:** Wear impervious clothing as appropriate to avoid skin contact.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None

**WORK HYGIENIC PRACTICES:** None

**EXPOSURE GUIDELINES:** None

### SECTION 8 NOTES:

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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There is only 15 milliliters of liquid in each cartridge and the propellant is Dupont 134 which is non flammable. Because there is such a small quantity in each cartridge these are non hazardous.

**APPEARANCE:** Thin liquid.

**ODOR:** Rubbing alcohol

**PHYSICAL STATE:** (isopropyl alcohol) \*(In such small quantities we are exempt from IMO declaration)

### pH AS SUPPLIED:

pH (Other):

### BOILING POINT:

F: 180

C: 82

### MELTING POINT:

F: n/a

C: n/a

### FREEZING POINT:

F: n/a

C: n/a

### VAPOR PRESSURE (mmHg):

@

F: 35mm Hg

C:

### VAPOR DENSITY (AIR = 1):

@

F: 1

C:

### SPECIFIC GRAVITY (H2O = 1):

@ .8 - 1.0

F: 77

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C: 2.5

EVAPORATION RATE: 2.83 (isopropyl alcohol)

BASIS (=1): 1

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## SECTION 10: STABILITY AND REACTIVITY

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### STABLE

### UNSTABLE

**STABILITY:** Stable

**CONDITIONS TO AVOID (STABILITY):** Heat. Containers may rupture.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Heat, flame, strong oxidizers, acetaldehyde, acids, chlorine, ethylene oxide, hydrogen-palladium combination, hydrogen peroxide-sulfuric acid combination, isocyanates.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon dioxide and Carbon monoxide.

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID (POLYMERIZATION):** Heat and ignition sources.

**SECTION 10 NOTES:**

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION:**

**SECTION 11 NOTES:**

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:**

**SECTION 12 NOTES:**

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations.

**RCRA HAZARD CLASS:**

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## SECTION 13: DISPOSAL CONSIDERATIONS (con't)

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**SECTION 13 NOTES:** None

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

**PROPER SHIPPING NAME:** Flammable liquid N.O.S. (isopropyl alcohol) \*(In such small quantities we are exempt from IMO declaration)

**HAZARD CLASS:** 3

**ID NUMBER:** UN1219

**PACKING GROUP:** II

**LABEL STATEMENT:**

### WATER TRANSPORTATION

**PROPER SHIPPING NAME:** Flammable liquid N.O.S. (isopropyl alcohol) \*(In such small quantities we are exempt from IMO declaration)

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HAZARD CLASS: 3  
ID NUMBER: UN1219

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PACKING GROUP: II  
LABEL STATEMENTS:

## AIR TRANSPORTATION

PROPER SHIPPING NAME: Flammable liquid N.O.S. (isopropyl alcohol) \*(In such small quantities we are exempt from IMO declaration)

HAZARD CLASS: 3  
ID NUMBER: UN1219  
PACKING GROUP: II  
LABEL STATEMENTS:

OTHER AGENCIES:

## SECTION 14 NOTES:

There is only 15 milliliters of liquid in each cartridge and the propellant is Dupont 134 which is non flammable. Because there is such a small quantity in each cartridge these are non hazardous. VenMill is exempt from Ocean, Land or Air declarations because the liquid in the bottles are in such small quantities.

## CANNISTER PROPELLANT:

CHEMICAL NAME: 1,1,1,2-tetrafluoroethane)  
HAZARD CLASS 2.2 COMPRESSED GAS  
LABEL: Non-Flammable Gas  
UN NUMBER: 3159

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Listed      TSCA 12(b) No

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): No

311/312 HAZARD CATEGORIES: Acute, Chronic, Fire

313 REPORTABLE INGREDIENTS: None

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

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## SECTION 16: OTHER INFORMATION

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OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER: