



# MATERIAL SAFETY DATA SHEET



Prepared in accordance with ISO 11014-1/ ANSI standard  
Z400.1-2004

Revision Date: 3/30/2010  
MSDS No.: ND1030

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Vibra-TITE Formula #3

**Synonyms:** VC-3 Original

**Use of the Substance/Preparation:** Locking and Sealing Threaded Fasteners

**Supplier:**

ND Industries, Inc.  
1893 Barrett Road  
Troy, Michigan 48084  
Tel: (248) 288-0000  
Fax: 248) 288-0022

**Emergency Telephone Number:** 24 hr. EMERGENCY CHEMTREC  
1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW-  
Danger:**

Red viscous liquid with characteristic solvent odor.  
Flammable liquid and vapor. Severe eye and skin irritant.  
Avoid contact with eyes and skin. Respiratory tract  
irritant. Do not breathe vapors.

**Principle Routes of Exposure:**

Eye, skin, inhalation

**POTENTIAL HEALTH EFFECTS:**

**Eye Contact:**

Can cause severe eye irritation. May result in permanent  
eye damage.

**Skin Contact:**

Prolonged contact may cause moderate skin irritation and  
dermatitis.

**Inhalation:**

Can cause respiratory tract irritation.

**Ingestion:**

Harmful if ingested.

**Carcinogenic Effects:**

No data on the product itself.

**Target Organ Effects:**

Central Nervous System Depression

**Medical Conditions Aggravated: by**

None Known

**Exposure:**

**Potential Environmental Effects:**

Not established

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EINECS Number	Weight %	EU Classification
Methyl Ethyl Ketone	78-93-3	201-159-0	62-72	R11, R36-37-38; R66, R67

Acrylic Polymer	Mixture	Mixture	20-25	R11, R20/22, R67
Acrylic Polymer	Mixture	Mixture	12-18	R10, R41, R48

**4. FIRST AID MEASURES**

**Eye Contact:** Flush eyes with generous amounts of water for at least 15 minutes. Occasionally lifting upper and lower eyelids. Seek medical attention.

**Skin Contact:** Wash exposed area thoroughly with soap and water. Remove contaminated clothing and shoes. Launder before reuse. If symptoms develop seek medical attention.

**Inhalation:** Remove to fresh air. Seek medical attention.

**Ingestion:** Drink two glasses of water and seek medical attention. DO NOT INDUCE VOMITING.

**Notes to Physician:** Treat symptomatically

**5. FIRE AND IGNITION INFORMATION**

**Flash Point** 24.8°F TCC -28.4°C TOC

**Explosion Limits in Air – Upper (%):** 11.5 @ 77°F

**Explosion Limits in Air – Lower (%):** 1.8 @ 77°F

**OSHA Flammability Classification:** This product is considered flammable under OSHA

**Auto-ignition Temperature:** ~860°F

**Extinguishing Media:** Water spray, CO<sub>2</sub>, Dry chemical, Foam

**Special Protective Equipment for Firefighters:** Wear NIOSH approved self contained breathing apparatus and full turnout gear.

**Specific Hazards:** Vapors are heavier than air.

**Hazardous Decomposition and/or Combustion Products:** Oxides of carbon.

**Risk of Dust Explosion:** N/A

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Eliminate ignition sources. Only trained personnel should clean up a spill. Use appropriate personal protective equipment.

**Methods for Cleaning Up:** Use inert absorbent to contain spill. Place collected material into appropriate waste container. Keep container closed.

**7. HANDLING AND STORAGE**

**Handling:** Avoid breathing vapors. Keep away from ignition sources.

**Storage:** Keep container closed when not in use. Store in a cool dry place away from direct sunlight. Containers of this product may be hazardous when emptied, due to product residue. Observe all safety precautions when handling empty containers.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMITS**

Exposure limits for those components with limits are stated below.

<b>Methyl Ethyl Ketone:</b>	US OSHA PEL: 200 ppm TWA US ACGIH – TLV: 200 ppm TWA
<b>Acrylic Polymer</b>	US OSHA PEL: none established US ACGIH – TLV: none established
<b>Acrylic Polymer</b>	US OSHA PEL: none established US ACGIH – TLV: none established

**PEL: Permissible Exposure Limit**  
**STEL: Short Term Exposure Limit**  
**TLV: Threshold Limit Value**  
**TWA: Time Weighted Average**  
**US ACGIH: United States American Conference of Governmental Industrial Hygienists**  
**US OSHA: United States Occupational Safety and Health Administration**  
**WEL: Workplace Exposure Limit**

**ENGINEERING CONTROLS** Use localized ventilation if necessary to maintain concentrations below recommended exposure levels.

**PERSONAL PROTECTIVE EQUIPMENT**

**Respiratory Protection:** Work in a well ventilated area. If engineering controls are not sufficient to maintain exposures below recommend levels, use a NIOSH approved respirator to avoid overexposure.

**Hand Protection:** Use chemical resistant gloves when using this product.

**Eye Protection:** Use chemical splash goggles when using this product.

**Skin and Body Protection:** Wear chemical resistant clothing when using this product.

**Other:** Use good personal hygiene when using this product. Always wash hands before eating, drinking, smoking, or using the toilet.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Red viscous liquid
<b>Odor:</b>	Characteristic
<b>pH</b>	(description)
<b>Vapor Pressure:</b>	83 mmHg at 75°F
<b>Boiling Point/Range:</b>	~176°F
<b>Melting Point/Range:</b>	Not applicable
<b>Water Solubility:</b>	16.32% at 68°F
<b>Density:</b>	7.67 lb./gal.
<b>Specific Gravity:</b>	0.92
<b>% Volatile (by Volume):</b>	Not established
<b>Evaporation Rate:</b>	6.31
<b>Viscosity:</b>	250 cps @ 77°F

**10. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Mechanical Sensitivity (shock):</b>	None
<b>Conditions to Avoid:</b>	Avoid ignition sources such as, heat, open flame, and static discharge. Do not store in direct sunlight.

**Hazardous Decomposition and/or Combustion Products:** Acrylic monomers  
**Static Discharge Effects:** Avoid static discharge. Use proper bonding and grounding techniques when using this product.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

**Oral LD50:** No data on the product itself.  
**Inhalation LC50:** No data on the product itself.  
**Dermal LC50:** No data on the product itself.  
**Eye Irritation:** No data on the product itself.  
**Skin Irritation:** No data on the product itself.

### SUBCHRONIC TOXICITY

No data on the product itself.

### CHRONIC TOXICITY

**Carcinogenic Effects:** This product's components contain trace amounts of xylene, ethylbenzene, and benzene, which are listed as OSHA regulated carcinogens.  
**Mutagenic Effects:** No data on the product itself  
**Reproductive Toxicity:** No data on the product itself.  
**Sensitizing Effects:** Contains no known sensitizers.  
**Synergistic Materials:** Not established

## 12. ECOLOGICAL INFORMATION

*Information given is based on data on the components and the toxicology of similar products.*

**Aquatic Toxicity:** Not established

### ENVIRONMENTAL FATE

**Mobility:** No data on the product itself.  
**Bioaccumulation:** No data on the product itself.  
**Persistence / Degradability:** No data on the product itself.  
**Distribution to Environmental Compartments:** No data on the product itself.

## 13. DISPOSAL CONSIDERATIONS

**Disclaimer:** Information in this section pertains to the product as shipped in its intended composition as described in Section 2 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.

**RCRA Classification (40 CFR 261):** This product, when determined to be waste, will be hazardous waste by characteristic of ignitability (D001) and/or characteristic of toxicity (D035) according to 40CFR, 261 subpart C.

**Unused and Uncontaminated Product:** N/A

#### 14. TRANSPORTATION INFORMATION

Proper DOT shipping name: Coating Solution  
UN Number: UN1139  
Packing group: II  
Hazard Class: 3

#### 15. REGULATORY INFORMATION

##### **Hazard Classification**

**Unite States – OSHA (29 CFR 1910.1200):** This product is considered a hazardous substance under OSHA.

**Mexico – NOM-018-STPS:** Not determined

**Canada – WHMIS Classification (CPR, SOR/88-66):** Class B, Division 2

##### **International Inventories**

**All components of this product are listed on or exempt from the following inventories:**

- (yes) - Australian Inventory of Chemical Substances (AICS)
- (yes) - Domestic Substances List (DSL)
- (yes) - Chinese Inventory
- (yes) - European Inventory of Existing Commercial Substances (EINECS)
- (yes) - Japanese Existing and New Chemical Substances (ENCS)
- (yes) - Korean Existing Chemicals List (KECL)
- (yes) - New Zealand Hazardous Substances and New Organisms Act (HSNO)
- (yes) - Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- (yes) - United States Toxic Substances Control Act (TSCA) Inventory

##### **U.S. Federal Regulations**

**TSCA 12(b) Export Notification:** This product does not contain any components that are subject to TSCA 12(b) Export Notification.

**Clean Air Act amendments of 1990 (CAA, Section 11240: CFR 82):** This product does not contain any components listed as Hazardous Air Pollutants, Toxic substance, or class 1 or class 2 Ozone Depletors.

**Clean Water Act (CWA, 40 CFR 116):** This product does not contain and listed Priority Pollutants.

**Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, 40 CFR 302):** This product contains Methyl Ethyl Ketone, RQ=5000lbs.

##### **Superfund Amendments and Reauthorization Act, Title III (SARA):**

**SARA Section 302 (40 CFR 355) Extremely Hazardous Substances:** No components of this product are listed as extremely hazardous chemicals under SARA section 302.

**SARA Section 311/312 (40 CFR 370) Hazard Category:** This product contains Methyl Ethyl Ketone, a substance identified under section 311/312 as subject to reporting requirements.

**SARA Section 313 (40 CFR 372) Toxics Release Inventory:** This product contains Methyl Ethyl Ketone, a substance identified under section 313 as subject to the supplier notification requirements.

**Pharmaceutical Information:** Not permitted

##### **U.S. State Regulations**

**California Proposition 65:** This product contains or may contain, chemicals listed under California Proposition 65 as having developmental or cancer causing effects.

16. OTHER INFORMATION

**HMIS Rating**

HMIS Index: \*- chronic, 0 – Minimal, 1 – slight, 2- moderate, 3 – serious, 4 –severe

Health: 2

Flammability: 3

Physical Hazard: 0

<b>Hazard symbols:</b>	<b>F-Highly flammable</b>	<b>Xi-Irritant</b>	
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<b>Risk phrases:</b>	
R11	<b>Highly Flammable</b>
R36/37/38	<b>Irritating to eyes, respiratory system and skin</b>
R66	<b>Repeated exposure may cause skin dryness or cracking</b>
R67	<b>Vapors may cause drowsiness and dizziness</b>

<b>Safety phrases:</b>	
S2	<b>Keep out of reach of children</b>
S9	<b>Keep container in a well-ventilated place</b>
S16	<b>Keep away from sources of ignition-No Smoking</b>
S24/25	<b>Avoid contact with skin and eyes</b>
S26	<b>In case of contact with eyes, rinse immediately with plenty of water and seek medical advice</b>
S37/39	<b>Wear suitable gloves and eye/face protection</b>

**Additional Contacts:**

**Prepared by:** ND Industries, Inc. – Safety, Health and Environmental Department  
**Revision Date:** 3/30/2010  
**Previous Revision Date:** 12/3/2009  
**Reasons for Revision:** Update section #16 other information.

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