



MATERIAL SAFETY DATA SHEET

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

Revision Date: 5/4/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ND 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-
Warning:**

Red viscous liquid with characteristic solvent odor.
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		62-72	

Product Name:**Product Code:****Revision Date:**

Acrylic Polymer			20-25	
Acrylic Polymer			12-18	

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:	Flammable
Autoignition Temperature:	~860°F
Extinguishing Media:	Water spray, CO ₂ , 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.
Environmental Precautions:	Do not permit spilled material into waterways or sewerage systems.

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 are stated below.

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

Appearance:	Red viscous liquid
Odor:	Characteristic
pH	Not established
Vapor Pressure:	83 mmHg at 75°F
Boiling Point/Range:	~176°F
Melting Point/Range:	Not applicable
Water Solubility:	16.32% at 68°F
Density:	7.67 lb./gal.
Specific Gravity:	0.92
% Volatile (by Volume):	4.94 lb./gal.
Evaporation Rate:	6.31
Viscosity:	250 cps @ 77°F
Partition Coefficient (n-octanol/water):	Not established

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Mechanical Sensitivity (shock): None
Conditions to Avoid: 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: Not established
Bioaccumulation: Not established
Persistence / Degradability: Not established
Distribution to Environmental Compartments: Not established

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
WHMIS Identification: Class B, Division 2

15. REGULATORY INFORMATION

Hazard Classification

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

Mexico – NOM-018-STPS: Not established

Canada – WHMIS Classification (CPR, SOR/88-66): Not established

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 does not contain any listed hazardous substances.

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 does not meet any of the reporting requirements under SARA Section 311/312.

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

Additional Contacts:

Prepared by: ND Industries, Inc. – Safety, Health and Environmental Department
Revision Date: 5/4/2009
Previous Revision Date: 10/2/2008
Reasons for Revision: Update regulatory information.

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