

## 1. Product and Company Identification

<b>Product Code:</b>	VFRI8B	
<b>Product Name:</b>	VF-RI 8B	
<b>Company Name:</b>	Vibra Finish Co.	<b>Phone Number:</b>
	2220 N. Shasta Way	(800)635-0259
	Simi Valley, CA 93065	
<b>Web site address:</b>	www.vibrafinish.com	
<b>Emergency Contact:</b>	CHEMTREC	(800)424-9300

**Product Category:** Corrosion Inhibitor

## 2. Hazards Identification

**Acute Toxicity: Oral, Category 3**  
**Skin Corrosion/Irritation, Category 2**  
**Serious Eye Damage/Eye Irritation, Category 2A**  
**Skin Sensitization, Category 1**  
**Specific Target Organ Toxicity (single exposure), Category 3**



<b>GHS Signal Word:</b>	<b>Danger</b>
<b>GHS Hazard Phrases:</b>	H301 - Toxic if swallowed. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.
<b>GHS Precautionary Phrases:</b>	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>GHS Response Phrases:</b>	P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302+352 - IF ON SKIN: Wash with plenty of soap and water. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER or doctor/physician if you feel unwell. P321 - Specific treatment see more information on this SDS. P330 - Rinse mouth. P332+313 - If skin irritation occurs, get medical advice/attention. P333+313 - If skin irritation or rash occurs, seek medical advice/attention. P337+313 - If eye irritation persists, get medical advice/attention. P362 - Take off contaminated clothing and wash before re-use. P363 - Wash contaminated clothing before reuse.
<b>GHS Storage and Disposal Phrases:</b>	P405 - Store locked up. P501 - Dispose of contents/container to an approved waste disposal facility.

**Potential Health Effects  
(Acute and Chronic):**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. When diluted with water, VF-RI8B is not anticipated to pose a health hazard. Exercise caution, however when working with the concentrated product (as supplied). All chemicals, regardless of concentration, should be handled with care and in a manner that minimizes exposure.

**Inhalation:**

May cause nose, throat, and lung irritation. Inhalation of vapors will cause coughing or breathing difficulty. Inhalation of vapor from heated material or mist may cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, with chest pain and coughing.

**Skin Contact:**

Causes skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. Causes redness and pain.

**Eye Contact:**

Causes serious eye damage. May cause burning of eyes and flow of tears. Causes redness and pain. May cause conjunctivitis.

**Ingestion:**

Causes digestive tract burns. May cause irritation of the mucous membranes in the mouth, throat, esophagus, and stomach. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
102-71-6	Triethanolamine	<11.0 %	
7632-00-0	Sodium nitrite	< 3.0 %	
111-42-2	Diethanolamine	< 0.01 %	

### 4. First Aid Measures

**Emergency and First Aid Procedures:**
**In Case of Inhalation:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if a respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

**In Case of Skin Contact:**

IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

**In Case of Eye Contact:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses. If present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical attention.

**In Case of Ingestion:**

If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Note to Physician:**

Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire Fighting Measures

<b>Flash Pt:</b>	> 212.00 F (100.0 C) Method Used: Pensky-Marten Closed Cup
<b>Explosive Limits:</b>	LEL: No data UEL: No data
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
<b>Unsuitable Extinguishing Media:</b>	Do not use water jet. Use of heavy stream of water may spread fire.
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use proper personal protective equipment as indicated in Section 8. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Containers can build up pressure if exposed to heat (fire). Use water spray to keep fire exposed containers cool.
<b>Flammable Properties and Hazards:</b>	No data available.
<b>Hazardous Combustion Products:</b>	Nitrogen oxides, Carbon monoxide. Carbon dioxide.

## 6. Accidental Release Measures

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Keep unnecessary personnel away. Keep people away from upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. ensure ventilation. Local authorities should be advised if significant spillage cannot be contained. for personal protection, see Section 8 of the SDS.
<b>Environmental Precautions:</b>	Discharge into the environment must be avoided. Do not let product enter drains, sewers, watersheds or water systems. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal. Stop flow of material if without risk. Never return spills to original containers for re-use. For waste disposal see section 13 of the SDS. Eliminate all ignition sources (NO smoking, flares, sparks, or flames in immediate area). Transfer material into an approved container for possible recovery and reuse or for disposal.

## 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Do not get in eyes, on skin or on clothing. Wash hands thoroughly with mild soap and water after handling and before eating, drinking or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>Precautions To Be Taken in Storing:</b>	Keep container tightly closed. Store away from incompatible substances. Store away from oxidizers.
<b>Other Precautions:</b>	Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

## 8. Exposure Controls/Personal Protection

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
102-71-6	Triethanolamine	ACGIH TLV	TLV: 5 mg/m <sup>3</sup>	
111-42-2	Diethanolamine	ACGIH TLV	TLV: 2 mg/m <sup>3</sup>	

<b>Respiratory Equipment (Specify Type):</b>	Avoid breathing vapors and mists. Avoid generating mists or sprays to significantly reduce risk of respiratory exposure. If ventilation is not sufficient to effectively prevent buildup of vapors or mists and the exposure limit is exceeded, use a NIOSH/MSHA approved respirator. Use NIOSH/MSHA approved respirator, with a full face piece when concentrations are unknown.
<b>Eye Protection:</b>	Wear safety glasses with side shields (or goggles) and a face shield.
<b>Protective Gloves:</b>	Wear chemical resistant protective gloves. The breakthrough time of the selected gloves must be greater than the intended use period. Rubber or neoprene gloves. Nitrile gloves.
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Engineering Controls (Ventilation etc.):</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to minimize exposure levels.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

<b>Physical States:</b>	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
<b>Appearance and Odor:</b>	Appearance: Liquid. Colorless to pale yellow. Odor: Mild.
<b>pH:</b>	8.5      (100.0 %) at 68.0 F (20.0 C)
<b>Melting Point:</b>	< 32.00 F (0.0 C)
<b>Boiling Point:</b>	> 212.00 F (100.0 C)
<b>Flash Pt:</b>	> 212.00 F (100.0 C)    Method Used: Pensky-Marten Closed Cup
<b>Evaporation Rate:</b>	NA
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Explosive Limits:</b>	LEL: No data      UEL: No data
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NA
<b>Vapor Density (vs. Air = 1):</b>	NA
<b>Specific Gravity (Water = 1):</b>	No data.
<b>Density:</b>	1.04 G/CC    at 68.0 F (20.0 C)
<b>Solubility in Water:</b>	Soluble
<b>Solubility Notes:</b>	Soluble in water.

**Octanol/Water Partition Coefficient:** No data.  
**Autoignition Pt:** No data.  
**Decomposition Temperature:** No data.  
**Viscosity:** No data.

### 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** High temperatures, ignition sources, incompatible materials.  
**Incompatibility - Materials To Avoid:** Strong oxidizing agents. Acids.  
**Hazardous Decomposition or Byproducts:** Hazardous decomposition products formed under fire conditions. Carbon monoxide. Carbon dioxide. nitrogen oxides (NOx), Decomposition products depend upon temperature, air supply and the presence of other materials.  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

### 11. Toxicological Information

**Toxicological Information:** Routes of Entry: Inhalation, Eye contact, Skin contact. Ingestion  
**Irritation or Corrosion:** Can cause skin irritation. Pain, redness, blistering may occur.  
Serious eye damage/eye irritation: Eye irritation. Pain , watering, redness may occur.  
May cause nose, throat, and lung irritation.  
**Symptoms related to Toxicological Characteristics:** Acute oral toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.  
As single dose LD50 has not been determine.  
Based on information for component(s):  
LD50, Rat, 6.400 mg/kg  
Information for components:  
Triethanolamine: LD50, rat, 6400 mg/kg  
N,N- diethanolamine: LD50, Rat, male and female, 1600 mg/kg OECD 401 or equivalent.  
Acute Dermal Toxicity:  
Prolonged skin contact is unlikely to result in absorption of harmful amounts.  
As product: the dermal has not been determined.  
  
Based on information for component(s)  
Triethanolamine: LD50, Rabbit >2000 mg/kg. No deaths occurred at this concentration.  
N-N diethanolamine: LD50, Rabbit, male , >8200 mg/kg  
  
Acute inhalation toxicity  
At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous.  
As product: the LC50 has not been determined.  
**Sensitization:** Skin contact may cause an allergic skin reaction in a small proportion of individuals. Did not cause allergic reactions when tested in guinea pigs.  
For respiratory sensitization: No relevant data found.  
Aspiration hazard: Based on physical properties: not likely to be an aspiration hazard.  
**Carcinogenicity/Other** Based on information for component(s): triethanolamine. Findings from a chronic skin

**Information:** painting study by NTP include liver tumors in mice. Mechanistic studies indicate that tumor formation is of questionable relevance to humans. Finding from a chronic diethanolamine skin painting study by NTP include liver and kidney tumors in mice; no tumors were observed in rats. Mechanistic studies indicate that tumor formation is of questionable relevance to humans.

Carcinogenicity Component: N,N- Diethanolamine:  
 List: IARC Classification: Group 2B: possibly carcinogenic to humans.  
 List: ACGIH A3: Confirmed animal carcinogen with unknown relevance to humans.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

**12. Ecological Information**

**General Ecological Information:** Triethanolamine:  
 Acute Toxicity to fish: Material is practically non-toxic to aquatic organisms on an acute basis.  
 (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).  
 May increase pH of aquatic systems to > pH 10 which may be toxic to aquatic organisms. LC50, Pimephales promelas (fathead minnow), flow-through test, 96 hour, 11,800 mg/l, OECD test Guideline 203 or equivalent.

**Persistence and Degradability:** In water, sodium nitrite dissociates completely and under aerobic conditions the nitrite ions are oxidized to nitrates.

**13. Disposal Considerations**

**Waste Disposal Method:** Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb and/or contain spill with sand, earth, inert material or other non-combustible absorbent material then place in suitable container. Clean up spills immediately and dispose of waste safely. Dispose of absorbed material in accordance with local, regional, national and international regulations. Do not let product enter drains, sewers, watersheds or water systems. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed  
 RCRA-U-Series: None listed.

**14. Transport Information**

**LAND TRANSPORT (US DOT):**  
**DOT Proper Shipping Name:** NOT REGULATED FOR DOMESTIC TRANSPORTATION.  
**DOT Hazard Class:**  
**UN/NA Number:**

**15. Regulatory Information**

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
102-71-6	Triethanolamine	No	No	No
7632-00-0	Sodium nitrite	No	Yes NA	Yes (3%)
111-42-2	Diethanolamine	No	Yes NA	Yes (<0.1%)

**EPA SARA Title III Section 313 Toxic Release Inventory.**

This product contains a toxic chemical or chemicals subject to the reporting requirements of EPCRA Section 313 (40 CFR Section 372).

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

- |   |  |
|---|--|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explosive<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Flammable (gases, aerosols, liquid, or solid)<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Oxidizer (liquid, solid or gas)<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-reactive<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric (liquid or solid)<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric gas<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-heating<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Organic peroxide<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrosive to metal<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Gas under pressure (compressed gas)<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No In contact with water emits flammable gas<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Combustible Dust<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Physical) Hazard Not Otherwise Classified (HNOC) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Acute toxicity (any route of exposure)<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Skin Corrosion or Irritation<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Serious eye damage or eye irritation<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Respiratory or Skin Sensitization<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Germ cell mutagenicity<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Carcinogenicity<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Reproductive toxicity<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Specific target organ toxicity (single or repeated exposure)<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Aspiration Hazard<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Simple Asphyxiant<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Health) Hazard Not Otherwise Classified (HNOC) |
|---|--|

**California Proposition 65**



**WARNING**

This product can expose you to chemicals including Ethanol, 2,2'-iminobis-, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Regulatory Information:**

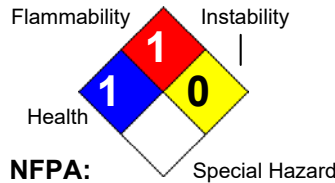
California Proposition 65: May contain the following Trace Components: This product can expose you to chemicals including Diethanolamine, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 16. Other Information

**Revision Date:** 07/21/2021 **Previous revision:** 08/16/2013

**Preparer Name:** Regulatory Affairs

**Hazard Rating System:**



**Additional Information About This Product:**

Vibra Finish Company cannot anticipate all conditions which this information and our products, or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the application of this information, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether alone or in combination with other products.