

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code:	VFRI8B	
Product Name:	VF-RI 8B	
Company Name:	Vibra Finish Co. 2220 N. Shasta Way Simi Valley, CA 93065	Phone Number: +1 (800)635-0259
Web site address:	www.vibrafinish.com	
Emergency Contact:	Chemtrec	+1 (800)424-9300
Intended Use:	Corrosion Inhibitor	

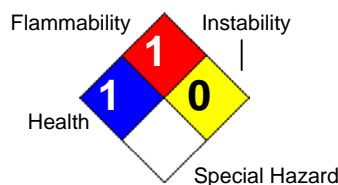
2. HAZARDS IDENTIFICATION

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



GHS Signal Word: Danger

GHS Hazard Phrases:	H301 - Toxic if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H401 - Toxic to aquatic life.
GHS Precaution Phrases:	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P362+364 - Take off contaminated clothing and wash it before reuse.
GHS Response Phrases:	P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P315 - Get immediate medical advice/attention. P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention. P302+352 - IF ON SKIN: Wash with plenty of soap and water. P332+313 - If skin irritation occurs, get medical advice/attention. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315 - Get immediate medical advice/attention. P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.
GHS Storage and Disposal Phrases:	P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard Rating System:

NFPA Hazard Ratings
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-RI 8B 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:

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:

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

Eye Contact:

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

Ingestion:

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 %
7632-00-0	Sodium nitrite	<3.0 %

4. FIRST AID MEASURES

Emergency and First Aid
Procedures:

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.

In Case of Inhalation:
In Case of Skin Contact:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing separately before reuse. Get medical aid if irritation develops and persists.

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 if irritation persists.

In Case of Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get immediate medical advice/attention.

Note to Physician:

Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt: > 212 F (100 C) Method Used: Pensky-Marten Closed Cup

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. Combustible liquid and vapor. 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). Containers may explode in the heat of a fire. Use water spray to keep fire-exposed containers cool.

Flammable Properties and Hazards: High temperatures and fires may produce toxic carbon monoxide and carbon dioxide and oxides of phosphorus and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions: Do not let product enter storm drains, storm sewers, watersheds or water systems unless authorized.

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Provide ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep away from heat, sparks and flame. Keep away from sources of ignition. Keep away from oxidizing agents.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. Keep away from heat, sparks and flame. Keep away from oxidizing agents. Protect containers against damage. Keep container closed when not in use.

Other Precautions: Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
102-71-6	Triethanolamine	No data.	TLV: 5 mg/m3	No data.
7632-00-0	Sodium nitrite	No data.	No data.	No data.

Respiratory Equipment (Specify Type):	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 a NIOSH/MSHA approved respirator, with a full-facepiece when concentrations are unknown.
Eye Protection:	Wear chemical splash goggles and a full-face shield where there is potential for eye contact.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls (Ventilation etc.):	Use adequate mechanical or local exhaust ventilation to minimize exposure levels, particularly in areas where the air contacts open process equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility, and a safety shower is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
Appearance and Odor:	Appearance: Transparent. Light yellow. Liquid. Odor: Mild.
Melting Point:	< 32.0 F (0 C)
Boiling Point:	> 212 F (100 C)
Autoignition Pt:	No data.
Flash Pt:	> 212 F (100 C) Method Used: Pensky-Marten Closed Cup
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.04
Density:	NA
Vapor Pressure (vs. Air or mm Hg):	NA
Vapor Density (vs. Air = 1):	NA
Evaporation Rate:	NA
Solubility in Water:	Soluble
Saturated Vapor Concentration:	NA
Viscosity:	NA
pH:	8.5
Percent Volatile:	No data.

10. STABILITY AND REACTIVITY

Reactivity:	High temperatures and fires may produce toxic carbon monoxide and carbon dioxide and oxides of phosphorus and nitrogen.
Stability:	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
Conditions To Avoid - Instability:	Excess heat, Incompatible materials, ignition sources.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, Strong acids.
Hazardous Decomposition Or Byproducts:	High temperatures and fires may produce toxic carbon monoxide and carbon dioxide and oxides of phosphorus and nitrogen.
Possibility of Hazardous Reactions:	Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
Conditions To Avoid -	No data available.

Hazardous Reactions:

11. TOXICOLOGICAL INFORMATION

Toxicological Information:

Epidemiology: No information available.
 Teratogenicity: No information available.
 Reproductive Effects:
 Mutagenicity: No data available.
 Neurotoxicity: No information found.
 Other Studies: Ingredient CAS# 102-71-6:
 Acute toxicity, LD50, Oral, Rat, 4920 ul/kg

Other Studies: Ingredient CAS# 7632-00-0:
 Acute toxicity, TDLo, Intraperitoneal, Species: Rat, 21.0 mg/kg Result:
 methemoglobinemia-carboxyhemoglobin

Irritation or Corrosion:

Other Studies: Ingredient CAS# 102-71-6:
 Standard Draize Test, Eyes, Species: Rabbit, 10.00 mg

Carcinogenicity/Other Information:

CAS# 102-71-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
 CAS# 7632-00-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity:

NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:

Environmental: No information available.
 Physical: No information available.

Results of PBT and vPvB assessment:

Other Studies: Ingredient CAS# 102-71-6:
 LC50, Water Flea (Daphnia magna), 1390 mg/L, 24H, Intoxication
 LC50, Brine shrimp (Artemia salina), nauplii, 5600000 ug/L, 24H, Mortality

Other Studies: Ingredient CAS# 7632-00-0:
 LC50, Rainbow trout (Oncorhynchus mykiss), 190.0 ug/L, 96H, Mortality
 LC50, Western Mosquitofish (Gambusia affinis), adults, 1500.00 ug/L, 96H, Mortality
 LC50, Jumbo Tiger Prawn (Penaeus monodon), Post-larva, 13550 ug/L, 96H, Mortality
 LC50, Goldfish (Carassius auratus), adult(s), 160000 ug/L, 24H, Mortality

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:

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. Observe all federal, state, and local environmental regulations.
 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 TRANSPORT.
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 100 LB	Yes

Other US EPA or State Lists

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
102-71-6	Triethanolamine	TSCA: Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No
7632-00-0	Sodium nitrite	TSCA: Inventory, 5A(2), 12(b); CA PROP.65: No; CA TAC, Title 8: Title 8

Regulatory Information: PROPOSITION 65 (Chemicals known to the state of California to cause cancer or reproductive toxicity): This product may contain traces of. nitrilotriacetate (CAS 5064-31-3)

16. OTHER INFORMATION

Revision Date: 08/16/2013
Additional Information About This Product: No data available.

Company Policy or Disclaimer: 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.