

## Vibra Glo R-501

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Vibra Glo R-501
<b>Other Means of Identification</b>	Rust Inhibitor Compound
<b>Product Family</b>	Inhibitor
<b>Recommended Use</b>	Rust Inhibitor.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer/Supplier Identifier</b>	Vibra Finish Ltd, 5329 Maingate Drive, Mississauga, ON, L4W 1G6, Canada, Cheryl Mejia-Fermin, (905) 625-9955 Ext. 252 , <a href="https://vibra.com/">https://vibra.com/</a>
<b>Emergency Phone No.</b>	Vibra Finish, 905-625-9955, Business Hours: Monday - Friday, 7 am - 3 pm

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

#### Classification

Oxidizing liquid - Category 3; Acute toxicity (Oral) - Category 4; Eye irritation - Category 2A; Carcinogenicity - Category 2; Aquatic hazard (Acute) - Category 2; Aquatic hazard (Chronic) - Category 2

#### Label Elements



Signal Word:

Warning

Hazard Statement(s):

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep or store away from clothing and other combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P264	Wash hands and skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice or attention.

P330 Rinse mouth.

P337 + P313 If eye irritation persists: Get medical advice or attention.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

#### Other Hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Triethanolamine	102-71-6	10-20	TEA	
Sodium nitrite	7632-00-0	5-10	NDA	
Diethanolamine	111-42-2	1-5	DEA	
Alcohols, C12-15, ethoxylated propoxylated, liquids	68551-13-3	<1		

#### Notes

Concentrations are expressed in % weight/volume.

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice or attention if you feel unwell or are concerned.

##### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell or are concerned. If skin irritation occurs, get medical advice or attention. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

##### Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Quickly and gently blot or brush chemical off the face. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention.

##### Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

##### First-aid Comments

Get medical advice or attention if you feel unwell or are concerned. Some of the first-aid procedures recommended here require advanced first-aid training.

#### Most Important Symptoms and Effects, Acute and Delayed

Product Identifier: Vibra Glo R-501 - Ver. 1

Date of Preparation: October 27, 2018

Date of Last Revision: February 02, 2024

Page 02 of 08

Refer to "Section 11: Toxicological Information".

Ingestion may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by navy lips, tongue and mucus membranes, with skin colour being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress and death due to anoxia. If ingested, nitrates may be reduced to nitrites by bacteria in the digestive tract. Signs and symptoms of nitrite poisoning include methemoglobinemia, nausea, dizziness, increased heart rate, hypotension, fainting and, possibly shock.

#### **Immediate Medical Attention and Special Treatment**

##### **Target Organs**

Blood.

##### **Special Instructions**

If medical advice is needed, have product container at hand. Consideration should be given to the possibility that over-exposure to materials other than this product may have occurred.

(Sodium nitrite)

##### **Medical Conditions Aggravated by Exposure**

None known.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Not combustible. Use extinguishing agent suitable for surrounding fire.

#### **Unsuitable Extinguishing Media**

None known.

### **Specific Hazards Arising from the Product**

Does not burn.

Corrosive, oxidizing nitrogen oxides.

### **Special Protective Equipment and Precautions for Fire-fighters**

Evacuate area. Fight fire from a safe distance or a protected location. Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases. Do NOT apply water directly to spill. Knock down vapours or gases with water fog or fine water spray.

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours. Oxidizer.

Prevent contact with flammable and combustible materials. Dike and recover contaminated water for appropriate disposal. Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

Fire-fighters should enter area wearing specialized protective equipment. (Bunker Gear will not provide adequate protection.)

A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Remove or isolate incompatible materials as well as other hazardous materials.

### **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Minimize the use of water to prevent environmental contamination.

### **Methods and Materials for Containment and Cleaning Up**

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up.

Small spills or leaks: stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Do not use absorbents. Contain spill using noncombustible material such as vermiculite, earth or sand. Cover the spill surface with the appropriate type of foam to reduce the release of vapour. Place used absorbent

---

Product Identifier: Vibra Glo R-501 - Ver. 1

Date of Preparation: October 27, 2018

Date of Last Revision: February 02, 2024

Page 03 of 08

into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product.

Large spills or leaks: dike spilled product to prevent runoff. Knock down vapour with fog or fine water spray. Do not direct water at spill or source. Remove or recover liquid using pumps or vacuum equipment. Flush spill area. Dike and recover contaminated water for appropriate disposal. If spills occur on wooden floor or other combustible material, flush with large quantities of water. Get expert advice before treating the spilled product with other chemicals to make it less hazardous. Do not return spilled product to its original container.

Store recovered product in suitable containers that are: tightly-covered. Review Section 13 (Disposal Considerations) of this safety data sheet. Contact emergency services and manufacturer/supplier for advice.

#### **Other Information**

Report spills to local health, safety and environmental authorities, as required. Contact supplier, local fire and emergency services for help.

## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Avoid breathing in this product. Do not get in eyes, on skin or on clothing. Do not swallow. Only use where there is adequate ventilation. Avoid generating vapours or mists. Prevent uncontrolled release of product. Avoid release to the environment. Immediately report leaks, spills or failures of the safety equipment (e.g. ventilation system). In the event of a spill or leak, exit the area immediately. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. If product is transferred to another container, ensure new container is suitable for the product. Prevent accidental contact with incompatible chemicals. Wear personal protective equipment to avoid direct contact with this chemical. Prevent contamination of surfaces that unprotected personnel may use. Prevent accidental contact with flammable and combustible materials. Keep containers tightly closed when not in use or empty. Never reuse empty containers, even if they appear to be clean. General hygiene considerations: it is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Do NOT smoke in work areas. Do NOT eat, drink or store food in work areas. Remove contaminated clothing and protective equipment before entering eating areas or leaving work area. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely. See Section 13 (Disposal Considerations) of this safety data sheet.

### **Conditions for Safe Storage**

Store in an area that is: cool, dry, well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Engineering controls are usually required in the storage area to protect against the product's hazard(s). Review Section 8 (Exposure Controls/Personal Protection) for information.

Store in the original, labelled, shipping container. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity). Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet. Comply with all applicable health and safety regulations, fire and building codes.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control Parameters**

Not available.

Triethanolamine - ACGIH TLV TWA = 5

Diethanolamine - ACGIH TLV TWA = 2

### **Appropriate Engineering Controls**

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Provide eyewash and safety shower if contact or splash hazard exists.

### **Individual Protection Measures**

#### **Eye/Face Protection**

Wear chemical safety goggles and face shield when contact is possible.

#### **Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: neoprene rubber, nitrile rubber, polyvinyl chloride.

---

Product Identifier: Vibra Glo R-501 - Ver. 1

Date of Preparation: October 27, 2018

Date of Last Revision: February 02, 2024

Page 04 of 08

## Respiratory Protection

Wear a NIOSH approved air-purifying respirator with N100, R100, or P100 filter(s).

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Clear colourless liquid.
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	9.0
<b>Melting Point/Freezing Point</b>	Not applicable (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	212 °F (100 °C)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	1.07
<b>Solubility</b>	Soluble in water; Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

Heat. Open flames, sparks, static discharge, heat and other ignition sources. Freezing. Incompatible materials.

### Incompatible Materials

Organic acids (e.g. acetic acid), ammonia, strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), halogens (e.g. chlorine).

### Hazardous Decomposition Products

Corrosive, oxidizing nitrogen oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

### Likely Routes of Exposure

---

Product Identifier:	Vibra Glo R-501 - Ver. 1
Date of Preparation:	October 27, 2018
Date of Last Revision:	February 02, 2024

Skin contact; eye contact; ingestion.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Sodium nitrite	Not available	158 mg/kg (rat)	Not available
Triethanolamine	4.6 mg/L (rat) (4-hour exposure)	1320 mg/kg (rat)	1000 mg/kg (rabbit)
Diethanolamine	4.6 mg/L (rat) (4-hour exposure)	1320 mg/kg (rat)	1000 mg/kg (rabbit)

Inhalation, Rat = 5.5 mg/4 hr (Sodium Nitrite)

Oral Rabbit = 186 mg/Kg (Sodium Nitrite)

### Skin Corrosion/Irritation

Animal tests show mild irritation. (Immediate Effect).

### Serious Eye Damage/Irritation

Animal tests show serious eye irritation. Symptoms include sore, red eyes, and tearing. (Immediate Effect).

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

No data available.

#### Skin Absorption

Not available.

#### Ingestion

May cause irritation of the mouth, throat and stomach. Symptoms may include nausea, vomiting, stomach cramps and diarrhea. Toxic if swallowed. (Immediate Effect).

### Aspiration Hazard

Not available.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

Not available.

### Respiratory and/or Skin Sensitization

Not known to be a skin sensitizer.

### Carcinogenicity

IARC: Group 2B – Possibly carcinogenic to humans. (Diethanolamine)

Note: Amines may react with nitrites to form nitrosamines. Some nitrosamines have been shown to be carcinogenic in laboratory animals.

Key to Abbreviations

IARC = International Agency for Research on Cancer.

### Reproductive Toxicity

#### Development of Offspring

Not known to harm the unborn child.

#### Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

#### Effects on or via Lactation

Not known to cause effects on or via lactation.

### Germ Cell Mutagenicity

Not known to be a mutagen.

### Interactive Effects

Not applicable.

---

Product Identifier: Vibra Glo R-501 - Ver. 1

Date of Preparation: October 27, 2018

Date of Last Revision: February 02, 2024

Page 06 of 08

## Other Information

The product has not been tested. The statements on toxicology have been derived from products of as similar structure and composition.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic, with long lasting effects to aquatic life,. (Sodium nitrite)

LC50 Fish 1: 0.19 mg/L (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) (Sodium Nitrite)

LC50 Fish 2: 0.092 - 0.13 mg/L (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) (Sodium Nitrite)

### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Triethanolamine	100-220 mg/L (Pimephales promelas (fathead minnow); 96-hour; static)	83.6 mg/L (Daphnia magna (water flea); 48-hour)	Not available	30 mg/L (Desmodesmus subspicatus (algae); 72-hour)
Diethanolamine	100-220 mg/L (Pimephales promelas (fathead minnow); 96-hour; static)	83.6 mg/L (Daphnia magna (water flea); 48-hour)	Not available	30 mg/L (Desmodesmus subspicatus (algae); 72-hour)

### Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent. Degrades rapidly based on quantitative tests.

### Bioaccumulative Potential

This product and its degradation products are not expected to bioaccumulate.

### Mobility in Soil

If released into the environment, this product can move slowly through the soil.

### Other Adverse Effects

There is no information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Recycle and reuse product, if possible. Dispose of contents and container in accordance with local, regional, national and international regulations. Recommended disposal methods are for the product, as sold. (Used material may contain other hazardous contaminants). This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water. Treat waste in an approved waste disposal facility. Empty containers retain product residue. Follow label warnings even if container appears to be empty. Dispose of or recycle empty containers through an approved waste management facility.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	3219	Nitrites, Inorganic, Aqueous Solution (Sodium nitrite)	5.1	III
Canadian TDG	3219	Nitrites, Inorganic, Aqueous Solution (Sodium nitrite)	5.1	III

### Environmental Hazards

Not applicable

Product Identifier: Vibra Glo R-501 - Ver. 1

Date of Preparation: October 27, 2018

Date of Last Revision: February 02, 2024

Page 07 of 08

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

This section is not required by WHMIS.

#### Canada

##### WHMIS 1988 Classification



Class C



Class D1B



Class D2A

C - Oxidizer; D1B - Toxic; D2A - Very Toxic (Carcinogenicity)

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

Sodium Nitrite listed on TSCA Inventory of Chemical Substances.

##### Additional USA Regulatory Lists

CERCLA. (Sodium nitrite). (Diethanolamine) SARA Title III - Section 302. (Sodium nitrite) SARA Title III - Section 311/312. (Sodium nitrite). (Triethanolamine). (Diethanolamine) SARA Title III - Section 313. (Sodium nitrite). (Diethanolamine)

## SECTION 16. OTHER INFORMATION

**NFPA Rating** Health - 2 Flammability - 0 Instability - 1  
**Special Hazard - Oxidizing**

**Date of Preparation** October 27, 2018

**Date of Last Revision** February 02, 2024

**Key to Abbreviations** ACGIH® = American Conference of Governmental Industrial Hygienists  
AIHA® = AIHA® Guideline Foundation HSDB® = Hazardous Substances Data Bank  
IARC = International Agency for Research on Cancer  
NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health  
NTP = National Toxicology Program  
OSHA = US Occupational Safety and Health Administration  
RTECS® = Registry of Toxic Effects of Chemical Substances

**Disclaimer** The information contained in this form is based on data from sources considered technically reliable and has been provided in good faith in accordance with the available material. It is provided as a service to the persons using the product but conditions of use and handling may involve other and additional consideration beyond our control. No warranty, expressed or implied, is made and we will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information in this form.

Product Identifier: Vibra Glo R-501 - Ver. 1

Date of Preparation: October 27, 2018

Date of Last Revision: February 02, 2024

Page 08 of 08