

VR-12  
7986 NW 14<sup>th</sup>. STREET  
DORAL FL 33126  
USA

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MSDS No: VR-12/001  
Ver. No: 1  
Ver. Date: 9/05/2013  
National Fire Protection Association

# MATERIAL SAFETY DATA SHEET

VR-12 VITAMIN FOR YOUR RADIATOR  
Pre-charged Additive package

CUSTOMER SERVICE:  
+1-305-640-0414

Protective Equipment:



0	Health
0	Flammability
0	Reactivity
0	Special

## SECTION 1

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product/Chemical Name:** VR-12  
**Product Description:** Inhibitor package, fully formulated and pre-charged Mixture  
Alkaline aqueous solution of inorganic and organic corrosion inhibitors.  
**Chemical Name:** Mixture  
**Chemical Family:** Mixture  
**Chemical Formula:** None  
**CAS Registry:** Inhibitor package for automotive antifreeze or additive package for automotive antifreeze/coolant.  
**Other Designations:** VR-12 PRODUCTS Inc  
**General Use:** 7986 NW 14 ST.  
**Manufacturer:** DORAL FL 33126  
Tel: 305-640-0414 Fax: 30305-640-0454  
Hours of operation: Mon-Fri 8:00am-5:00pm EST  
24-hour International Emergency Number: 1-800-282-3171

## SECTION 2

INGREDIENTE	CAS NO:	OSHA PEL
TOLYTRIAZOLE	7632-00-0	N/A
POTASSIUM HYDROXIDE	1310-58-3	2mg/m3
PROPRIETARY INHIBITORS	N/A	N/A
H2O	7732-18-5	

**SECTION 3****HAZARDOUS IDENTIFICATION**

Health: 0  
Flammability: 0  
Reactivity: 0  
Special: 0

0 = minimal 1= slight 2=moderate

3= serious 4= severe

**HMIS**

**H # 0**

**F # 0**

**R # 0**

**APPEARANCE:** FLORESCENT Amber YELLOWISH

**VAPOR PRESSURE** (mm Hg): N/A

**ODOR:** CHARACTERISTIC

**VAPOR DENSITY** (AIR =1): N/A

**EVAPORATION RATE:** N/A

**FREEZING POINT:** 32°F


**pH:** 10.2 to 11.0 (Concentrate) (9.6 Balanced)

**SPECIFIC GRAVITY (H<sup>2</sup>O =1):** 1.110 - 1.125

**SOLUBILITY IN WATER:** COMPLETE

NITRITE 2400 ppm min

**SECTION 4****FIRE-FIGHTING MEASURES**

<b>Unusual Fire fighting procedures:</b>	None required; non-flammable product	<p>NFPA</p> 
<b>Flash Point:</b>	None detected	
<b>Flash Point Method:</b>	Pesky Martens	
<b>Burning Rate:</b>	Does not burn	
<b>Auto ignition Temperature:</b>	Not available	
<b>Flammable limits in air (% by volume):</b>	Not applicable	
<b>LEL:</b>	Not applicable	
<b>UEL:</b>	Not applicable	
<b>Flammability Classification:</b>	Not flammable	
<b>Extinguishing Media:</b>	Water, fog, foam, CO <sub>2</sub> , dry chemical	
<b>Unusual Fire or Explosion Hazards:</b>	Closed containers may rupture or explode due to steam pressure build-up when exposed to extreme heat. Water may be used to cool closed containers.	
<b>Fire-Fighting Instructions;</b>	Do not release runoff from fire control methods to sewers or waterways.	
<b>Fire-Fighting Equipment:</b>	Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or Positive-pressure mode.	
<b>Unusual Fire fighting procedures:</b>	Full protective equipment including self-contained breathing apparatus should be used During a fire. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Seek medical attention.	

**SECTION 5****ACCIDENTAL RELEASE MEASURES**

<b>Spill/Leak Procedures:</b>	Recover usable material by convenient method; residual may be removed by wipe or wet mop
<b>Small Spills:</b>	Small spills should be absorbed with a suitable inert material (sand, earth, clay, etc.). Remove the absorbed material and place in an appropriate chemical waste container for disposal.
<b>Large Spills:</b>	For large spills, dike and pump into suitable containers. Clean up residual water.
<b>Disposal Method:</b>	BIODEGRADABLE, NO CONTAMINANT, NON HAZ.
<b>Regulatory Requirements:</b>	Follow applicable Federal, State and Local regulations.

**SECTION 6****HANDLING, STORAGE and Transportation**

<b>Handling Precautions</b>	Keep containers on a clean and dry storage, keep out of reach of children.
<b>Storage Requirements:</b>	Keep containers tightly closed when not in use. If security seal is broken use the product on cooling system or discard.
<b>Transportation Information:</b>	Transport Information: Product can be transported without any special handling. Make sure all Bottles are capped and all seals are unbroken. Product is Biodegradable and NON hazardous no special care is necessary.

## SECTION 7

## HAZARDOUS INFORMATION

EPA Regulations	N/A
RCRA Hazardous Waste Number and RCRA	N/A
Hazardous Waste Classification:	Biodegradable NON Hazardous

CERCLA Hazardous Substance and CERCLA N/A

### VR-12 DISCLAIMER.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE ACCURATE.

VR - 12 MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS

TO BE OBTAINED FROM THE USE THEREOF. VR-12 ASSUMES NO RESPONSIBILITY FROM THE USE OF THE PRODUCT

DESCRIBED HEREIN.

RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE,

AND SUITABLE TO THEIR CIRCUMSTANCES.

THE USAGE OF VR-12 DOES NOT REPAIR ANY DAMAGES ALREADY CAUSED OR NOTICED DUE TO A NEGLECTED COOLING SYSTEM.

DATE UPDATED: 09/02/2013

