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## MATERIAL SAFETY DATA SHEETS

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: Radiator Anti-Rust      ISSUE DATE: APRIL 2010

#### TRADE NAMES:

1. VALUE TECH RADIATOR ANTI-RUST & LUBRICANT

CAS NUMBER: Mixture  
SYNONYMS / GENERAL NAMES: Radiator Anti-Rust  
24 HOUR EMERGENCY TELEPHONE: (CHEMTREC) 1-800-424-9300  
TECHNICAL INFORMATION: 813-248-1988

### 2. COMPOSITION / INFORMATION ON INGREDIENTS / HAZARDOUS INGREDIENTS

COMPONENTS	CAS NO.	%	HAZARD DATA
Water		>97	NA
Sodium Hydroxide	1310-73-2	> .50	
Dye	Mixture	> 01	Eye: Possible low irritant Inhalation: Possible minor irritant

### 3. HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY:	Inhalation, Ingestion
TARGET ORGANS:	NA
IRRITANCY:	Toxic when ingested. Remove to fresh air. Mild skin irritation
REPRODUCTIVE EFFECTS:	ND
CANCER INFORMATION:	NA

### 4. FIRST AID MEASURES

EYES:	Immediately flush eyes with water for at least 15 minutes.
DERMAL:	Wash immediately with soap and water. Seek medical aid. Remove contaminated clothing.
INGESTION:	Do not ingest. Toxic when ingested. Seek medical aid.
INHALATION:	Do not inhale mists or fumes. Remove to fresh air. Seek medical aid.

### 5. FIRE FIGHTING MEASURES

FLASH POINT, °C( °F): NE  
FLAMMABLE LIMITS (% BY VOLUME): LOWER: ND      UPPER: ND  
EXTINGUISHING MEDIA: CO, Dry chemical foam  
SPECIAL FIRE FIGHTING PROCEDURES: NE  
AUTOIGNITION TEMPERATURE: NE  
EXPLOSION DATA: NE  
NFPA RATING: HEALTH: 1      FLAMMABILITY: 1      REACTIVITY: 0

### 6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Remove all ignition sources. Stop leak if you can do it without risk. Ventilate area of leak and avoid breathing vapor or mist. Contain away from surface waters and sewers. Contain as a liquid for possible recovery or sorb with compatible sorbent material and shovel into collapsible container for disposal.

**7. HANDLING AND STORAGE**

**HANDLING PROCEDURES:** Keep away from intense heat, sparks, or flame. Empty containers may contain product residue which could include flammable or explosive vapors.

**STORAGE PROCEDURES:** Do not apply heat or flame to container. Keep separate from strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>ENGINEERING CONTROLS:</b>	Use local and general ventilation.
<b>GLOVES PROTECTION:</b>	Heavy gloves. Neoprene for liquid contact.
<b>EYE PROTECTION:</b>	Safety goggles with splash shields.
<b>RESPIRATORY PROTECTION:</b>	Approved organic respirator above the TLV.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Red
<b>ODOR:</b>	Bland
<b>pH:</b>	10.00 - 12.00
<b>VAPOR PRESSURE, mm Hg (25 °C):</b>	ND
<b>VAPOR DENSITY:</b>	ND
<b>MELTING POINT:</b>	ND
<b>BOILING POINT, 760 mm Hg, °C:</b>	ND
<b>SOLUBILITY IN WATER:</b>	ND
<b>SPECIFIC GRAVITY:</b>	1.000 - 1.020 (60//60 °F)(H <sub>2</sub> O = 1)
<b>EVAPORATION RATE:</b>	ND
<b>VISCOSITY 40°C (100°C)</b>	ND
<b>MOLECULAR WEIGHT:</b>	ND
<b>PERCENT VOLATILE:</b>	

NO	<b>COMBUSTIBLE</b>	NO	<b>FLAMMABLE</b>	NO	<b>PYROPHORIC</b>
NO	<b>COMPRESSED GAS</b>	NO	<b>ORGANIC PEROXIDE</b>	NO	<b>REACTIVITY</b>
NO	<b>EXPLOSIVE</b>	NO	<b>OXIDIZER</b>	YES	<b>STABLE</b>

**10. STABILITY AND REACTIVITY**

<b>STABILITY:</b>	Stable
<b>INCOMPATIBILITY:</b>	Strong oxidants or acid, such as nitric.
<b>POLYMERIZATION:</b>	NA
<b>THERMAL DECOMPOSITION:</b>	CO <sub>2</sub> , (CO under incomplete combustion)

**11. TOXICOLOGICAL INFORMATION**

<b>EYE IRRITATION:</b>	Reports of blurred vision and blindness following ingestion, CNS depression, and coma.
<b>DERMAL IRRITATION:</b>	Mild Irritation.
<b>INHALATION TOXICITY:</b>	Mild Irritation.
<b>INGESTION IRRITATION:</b>	Procedures alcohol-like intoxication, processing to dizziness, vomiting, coma, and death.
<b>INJECTION SENSITATION:</b>	NA

**12. HEALTH INFORMATION**

**HMS CODE:** HEALTH:   1   FIRE:   1   REACTIVITY:   0  

No	<b>HIGHLY TOXIC</b>	No	<b>SENSITIZER</b>
No	<b>TOXIC</b>	No	<b>REPRODUCTIVE EFFECTS</b>
No	<b>CORROSIVE</b>	No	<b>MUTAGEN</b>
No	<b>IRRITANT</b>	No	<b>TARGET ORGAN</b>

**13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** May be disposed of through controlled incineration or land burial, if in compliance with local regulations. It is the responsibility of the user to determine if the material is a hazardous waste at the time of the disposal. Check before disposing to be sure you are in compliance with all applicable laws and regulations.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

<b>PROPER SHIPPING NAME:</b>	NA
<b>HAZARD CLASS:</b>	NA
<b>HAZARD IDENTIFICATION NUMBER:</b>	NA
<b>DOT PLACARD:</b>	NA

**15. REGULATORY INFORMATION****SARA SECTION 313 - TOXIC CHEMICALS:**

This product does not contain toxic chemicals under SARA Section 313 and 40 CFR Part 372.

**SARA SECTION 311 - HAZARD CATEGORIES:**

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

YES	<b>IMMEDIATE (ACUTE) HEALTH HAZARD</b>	NO	<b>SUDDEN RELEASE OF PRESSURE HAZARD</b>
NO	<b>DELAYED (CHRONIC) HEALTH HAZARD</b>	NO	<b>REACTIVE HAZARD</b>
NO	<b>FIRE HAZARD</b>		

**SARA SECTION 302 - EXTREMELY HAZARDOUS WASTE:**

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

**CLEAN WATER ACT (CWA):**

Under the CWA, discharges of crude oil and petroleum products to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

**CERCLA HAZARDOUS SUBSTANCES:**

As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance.

**U.S. TSCA INVENTORY**

All components of this material are on the U.S. TSCA Inventory or are not required to be listed on the U.S. TSCA Inventory

**16. OTHER INFORMATION**

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. VALUE TECH BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.

<b>NFPA HAZARD RATING</b>	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4
<b>HMIS HEALTH RATING</b>	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4