



## DOLPHIN RADIATOR FLUSH

Last Revision Date : 05.08.2018  
Revision No. : 00

Page No. : Page 1 of 4

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Details

**Product Name** : Dolphin Radiator Flush  
**Recommended Use** : Vehicle Radiators

#### Company Details

**Company Name** : Al Muqarram Industry L.L.C.  
**Address** : Etihad Street, Modern Industrial Area, Umm al Thaoob  
Post Box No. 24756  
Umm Al Quwain, United Arab Emirates  
**Phone Number** : +971 (6) 5353796  
**Fax No.** : +971 (6) 5353964  
**E-mail ID** : info@muqarram.com, sales@muqarram.com

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classified as** : Non Hazardous

**2.2 Label Elements** : None

**2.3 Other Hazards** : Causes skin, eye and respiratory irritation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	Wt. %
Water	7732-18-5	20 - 100
Sodium Citrate	6132-04-3	10 - 40

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid Measures

**Eye** : Flush eye with plenty of water. If irritation or other symptoms persist seek medical attention.

**Ingestion** : If swallowed, do not induce vomiting. Never give anything by mouth to unconscious person.

**Skin Contact** : Removes contaminated clothing. Wash affected area with soap and water.

**Inhalation** : Remove person to fresh air. Seek medical attention immediately.  
Adverse effect not expected from this products under normal condition of use.

#### 4.2 Most IMP. Symptoms

No specific treatment, treat symptomatically.



## DOLPHIN RADIATOR FLUSH

Last Revision Date : 05.08.2018  
Revision No. : 00

Page No. : Page 2 of 4

### 4.3 Indication of Immediate Medical Attention

## 5. FIRE – FIGHTING MEASURES

- |   |  |
|---|--|
| <b>5.1 Suitable Extinguish Media</b>                    | This product is not combustible. Use any media that is appropriate for the surrounding fire.   |
| <b>5.2 Specific Hazardous Arising From the chemical</b> | Thermal decomposition may produce oxides of sodium and carbon.   |
| <b>5.3 Advice for Firefighters</b>                      | Firefighters should wear positive pressure self- contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. |

## 6. ACCIDENTAL RELEASE MEASURES

- |   |   |
|---|---|
| <b>6.1 Personal precautions, protective equipment</b> | Wear appropriate protective equipment. Ensure adequate ventilation especially in Confined area.   |
| <b>6.2 Environmental Precautions</b>                  | Keep from entering storm sewers which lead to waterways.  |
| <b>6.3 Method of Cleaning Up</b>                      | Collect spilled liquid in sealable containers as far as possible and rinse area with clean water. |

## 7. HANDLING & STORAGE

- |                               |   |
|-------------------------------|---|
| <b>7.1 Safe Handling</b>      | Handle with good industrial hygiene and safety practice. Avoid contact with eye, clothing and wash thoroughly after handling. |
| <b>7.2 Storage Condition</b>  | No special storage required. Store in a well-ventilated area removed from incompatible substances, heat, or direct sunlight.  |
| <b>Respiratory Protection</b> | Not required under normal use conditions.   |
| <b>Eye Protection</b>         | Not required for normal use. Avoid contact with eye.  |

## 8. EXPOSURE CONTROLS PERSONAL PROTECTION

- |  |   |
|--|---|
| <b>8.1 Control Parameters Personal Protection Chemical</b> | This product contains no EPA Hazardous Air Pollutants (HAP)   |
| <b>8.2 Exposure Control</b>                                | Non Hazardous Ingredients Non Established.  |
| <b>Engineering Controls Personal Protective Equipment</b>  | Avoid inhalation. Use in well ventilated areas<br>Respiratory protection not required under normal use conditions. Gloves required under normal use conditions. Eye protection required for normal use. Avoid contact with eye. |



## DOLPHIN RADIATOR FLUSH

Last Revision Date : 05.08.2018  
Revision No. : 00

Page No. : Page 3 of 4

### 9. Physical & Chemical Properties

<b>Appearance</b>	Clear Colorless Liquid
<b>Specific gravity of bulk</b>	1.250 – 1.350
<b>PH</b>	8.0 – 10.0
<b>Water Solubility</b>	Soluble

### 10. Stability & Reactivity

<b>10.1 Reactivity</b>	Stable under normal use.
<b>10.2 Chemical Stability</b>	Stable under recommended storage condition.
<b>10.3 Possibility of Hazard Reactivity.</b>	Polymerization will not occur.
<b>10.4 Condition to avoid</b>	Keep away from all the heat sources, open flames and direct sunlight.
<b>10.5 Incompatible Material</b>	Strong acids, metals, flammable liquids.
<b>10.6 Hazardous Decomposition Products</b>	Thermal decomposition will produce oxides of carbon and sodium.

### 11. Toxicological Information

<b>11.1 Information on Toxicological Effect</b>	
<b>Inhalation</b>	Inhalation is not expected to be hazardous. Inhalation of large amounts may cause irritation.
<b>Eye Contact</b>	Direct contact may cause mild eye irritation with redness & tearing.
<b>Skin Contact</b>	Prolong or repeated contact may cause mild irritation in some individuals.
<b>Ingestion</b>	Swallowing may cause gastrointestinal disturbances.

### 12. Ecological Information

<b>12.1 Eco Toxicity</b>	No information provided.
<b>12.2 Persistence &amp; Degradability</b>	No data available.
<b>12.3 Bio accumulation</b>	No information available.
<b>12.4 Mobility</b>	Miscible with water.
<b>12.5 Other Adverse Effect</b>	No eco toxicity data available.

### 13. Disposal Consideration

<b>13.1 Water Treatment Method</b>	Disposal should be accordance with all local, state, provincial and federal regulation
------------------------------------	--



## DOLPHIN RADIATOR FLUSH

Last Revision Date : 05.08.2018  
Revision No. : 00

Page No. : Page 4 of 4

### 14. Transport Information

<b>General</b>	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
<b>UN Number</b>	Not Applicable
<b>IMDG Shipping Name</b>	N/A
<b>IMDG Hazard Class</b>	
<b>IATA Shipping Name</b>	N/A
<b>IATA Hazard Class</b>	
<b>ADG Shipping Name</b>	N/A
<b>ADG Hazard Class</b>	

### 15. Regulatory Information

<b>Hazards Codes</b>	<b>H290 (May be corrosive to metals)</b> <b>H315 (May cause skin irritation)</b>
<b>Chemical Safety</b>	Avoid to contact with skin and eyes.

### 16. Other Information

**Additional Information** It should be noted that the effects from exposure to this product depend on several Factors including frequency and duration of use, quantity used, effectiveness of Control measures, protective equipment used and method of application.

#### Abbreviations

<b>ACGIH</b>	American Conference of Government Industrial Hygienists.
<b>CAS#</b>	Chemical Abstract Service Number.
<b>PPM</b>	Parts per million.
<b>STEL</b>	Short Term Exposure Limits

### Disclaimer

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.