



WORLD-CLASS
CHEMICALS

المكرم لصناعة المواد العازلة ذ.م.م
Al Muqarram Insulation Material Industry L.L.C.

MATERIAL SAFETY DATA SHEET

DOLPHIN Radiator Flush

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Revision No. 2

Number of Pages: 3

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
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Emergency Telephone Number: 00971-549981925

2. HAZARDS IDENTIFICATION

Classification of substance or mixture

Classified as : Non-Hazardous
Label Elements : None
Other Hazards : Causes skin, eye, and respiratory irritation.

3. COMPOSITION/INFORMATION ON INGREDIENT

Chemical Identity	CAS No	Weight %
Water	7732-18-5	20 – 100
Sodium Citrate	6132-04-3	10 – 40

4. FIRST AID MEASURES

Description of First Aid Measures

Eyes : 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 product under normal condition of use.

Most Important Symptoms

Indication of Immediate Medical Attention and Special Treatment Needed : No specific treatment, treat symptomatically.

5. FIRE FIGHTING MEASURES

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AN ISO CERTIFIED COMPANY



Suitable Extinguishing Media	: This product is not combustible. Use any media that is appropriate for the surrounding fire.
Specific Hazards Arising From the Chemical	: Thermal decomposition may produce oxides of sodium and carbon.
Fire – Advice for Firefighters	: 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

Personal precautions, protective equipment	: Wear appropriate protective equipment. Ensure adequate ventilation especially in confined area.
Environmental Precautions	: Keep from entering storm sewers which lead to waterways.
Method of Cleaning Up	: Collect spilled liquid in sealable containers as far as possible and rinse area with clean water.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear Colorless Liquid
Specific gravity of bulk	: 1.250 – 1.350
pH	: 8.0 – 10.0
Water Solubility	: Soluble

10. STABILITY AND REACTIVITY

Reactivity	: Stable under normal use.
Chemical Stability	: Stable under recommended storage condition.
Possibility of Hazard	: Polymerization will not occur.
Reactivity.	
Condition to avoid	
Incompatible Material	: Keep away from all the heat sources, open flames and direct sunlight.
Hazardous Decomposition Products	: Thermal decomposition will produce oxides of carbon and sodium.

11. TOXICOLOGICAL INFORMATION

Information in Toxicology Effect

Inhalation	: Inhalation is not expected to be hazardous. Inhalation of large amounts may cause irritation
Eye Contact	: Direct contact may cause mild eye irritation with redness & tearing.
Skin Contact	: Prolong or repeated contact may cause mild irritation in some individuals.
Ingestion	: Swallowing may cause gastrointestinal disturbances.

12. ECOLOGICAL INFORMATION

Eco-toxicity	: No information provided.
Persistence and Degradability	: No data available.
Bioaccumulation	: No information available.
Mobility	: Miscible with water.
Other Adverse Effects	: No information available.

13. DISPOSAL CONSIDERATIONS

Water Treatment Method	: Disposal should be accordance with all local, state, provincial and federal regulation.
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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Hazard Codes	: H290 (May be corrosive to metals) H315 (May cause skin irritation)
Chemical Safety	: Avoid contacting with skin and eye.

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

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



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17. DISCLAIMER

The information provided in this document has been compiled based on 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 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 circumstances, conditions or use.