



WORLD-CLASS
CHEMICALS

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

MATERIAL SAFETY DATA SHEET

DOLPHIN Radiator Coolant

Revision Date: 9th March 2021

Revision No. 2

Number of Pages: 4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Details

Product Name : Dolphin Radiator Coolant
Recommended Use : Radiator Coolant

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
Website : www.muqarram.com

Emergency Telephone Number: 00971-549981925

2. HAZARDS IDENTIFICATION

Eye contact : Moderate eye irritation: Signs/symptoms may include redness, swelling pain, tearing, and blurred or hazy vision
Skin contact : No evidence of adverse effects from available information.
Inhalation : Signs/Symptoms may include cough, sneezing, nasal discharge, and headache and throat pain.
Ingestion : Gastrointestinal irritation: Signs/Symptoms may include abdominal pain, nausea, and vomiting. Bitter taste may be noted.

3. COMPOSITION/INFORMATION ON INGREDIENT

| Chemical Identity | CAS No | Weight % |
|-------------------|-----------|----------|
| Water | 7732-18-5 | 60 – 80 |
| MEG | 107-21-1 | 10 – 30 |
| Color | - | Traces |
| Additives | 9004-62-0 | 5 – 10 |

4. FIRST AID MEASURES

The following first aid recommendations assume that appropriate personal and industrial hygiene practices are followed. Moved the exposed person to fresh air at once.

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.



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Inhalation

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

5. FIRE FIGHTING MEASURES

Flammable Properties

: Auto ignition temperature
Flammable limits - LEL 3.2 %
Flammable limits - UEL 15.3 %

Extinguishing Media

: For large fires, use alcohol type or all-purpose foams. For small fires, use water supply, carbon dioxide or dry chemical. Do not spray pool fires directly. Cool fire exposed containers with water. Firefighters should wear self-contained breathing apparatus and full protective gear. Burning may produce carbon dioxide or carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing and equipment (See section 8). Collect with absorbent material and place in appropriate, labeled container for disposal or, if permitted flush spill area with water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

: Handle with good industrial hygiene and safety practice avoid breathing vapors or mist. Do not drink antifreeze or solution. Avoid eye and prolonged skin contact. Avoid breathing vapors or mists. Wash exposed skin thoroughly with soap and water after use.

Proper Storage Condition

: Do not store in an open or unlabeled container. Keep container away from open flames and excessive heat. Do not reuse empty container unless properly cleaned. Empty containers retain material residue and may be dangerous. Do not cut, weld, drill etc. container even empty. Sudden release of hot organic chemical vapors from process equipment operating may result in the ignition without any obvious ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

: Use general dilution ventilation and or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist. Vapor or spray. If ventilation is not adequate use respiratory protection equipment.

Eye/Face Protection

: Avoid eye contact with vapors, mist, or spray. The following eye protection (S) is recommended safely glasses with side shields, Indirect vented goggles.

Respiratory Protection

: Respiratory Protection - Avoid breathing or vapors, mist, or spray. Select of the following NIOSH approved respirators based on airborne concentration of contaminate and in accordance with OSHA regulations.

Skin Protection

: Avoid skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Gloves made from the following material(S) are recommended. Polyethylene /EVA.

Prevention of swallowing

: Do not eat, drink, or smoke when this product wash exposed areas thoroughly with soap and water.

Gloves

: Chemical resistant Gloves such as neoprene or PVC should be used where contact is possible.

Eye Protection

: Splash-proof goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------|---------------------------------|
| Appearance | |
| Physical State | : Liquid |
| Color | : Green |
| Properties | |
| Odor | |
| pH | : Mild |
| Flammable limits – LEL | : 7 – 8 |
| Flammable limits – UEL | : 3.2 % |
| Boiling Point | : 15.3 % |
| Solubility In Water | : 168°C |
| Density | : 100 % |
| Viscosity | : 1.10± 0.01 gm/cm ³ |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Stability | : Stable |
| Materials and conditions to Avoid | : None known. |
| Incompatibility | : Normally unreactive however avoid strong bases and acids, oxidizing agents and material reactive with hydroxyl compounds. |
| Hazardous Polymerization | : Hazardous polymerization will not occur |
| Decomposition products | : Carbon dioxide, Carbon monoxide. |

11. TOXICOLOGICAL INFORMATION

| | |
|---|--------------|
| Acute Toxicity Value | |
| LD50 Oral Rat | : 4700 mg/kg |
| LD50 Skin Rabbit | : 9530 mg/kg |
| Not determined but product may be toxic to aquatic organisms and may cause adverse effects in the aquatic environment. Do not allow to enter drains sewers or water course. | |

12. ECOLOGICAL INFORMATION

| | |
|--------------------------------------|-----------------------------|
| Eco-toxicity | : No information provided. |
| Persistence and Degradability | : No data available. |
| Bioaccumulation | : No information available. |
| Mobility | : Can disperse in water |
| other Adverse Effects | : No information available. |

13. DISPOSAL CONSIDERATIONS

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|-------------------------------|--|
| Water Treatment Method | : Ensure containers are empty before discharging. Do not puncture or incinerate. Dispose of waste product in a permitted hazardous waste facility. Local regulation is applicable, consult regulation authorities before disposal. |
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14. TRANSPORT INFORMATION

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| UN No. Sea / Air | : 1950 |
| Proper Shipping Name | : Radiator Coolant |
| Technical / Chemical Name | : Radiator Coolant |



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|---|------------|
| IMDG Class | : 2.1 |
| IMDG page no. | : 2102 |
| Subsidiary Hazard (S) | : 2.1 |
| IMO Class & Div. | : F-D, S-U |
| Emergency Schedule (EMS) Marine Pollutant | : No |

15. REGULATORY INFORMATION

| | |
|------------------|--|
| EPA SARA 311/312 | : Acute health, Chronic health |
| EPA SARA 313 | : Mono Ethyl Glycol 10-30% |
| R67 | : Vapors may cause drowsiness & dizziness safety phrases |
| S2 | : Keep out of reach of children |
| S16 | : Keep away from source of ignition - No smoking |
| S23 | : Do not breathe vapors |
| S29 | : Do not empty into drains |
| S51 | : Use only in well ventilated areas |

16. OTHER INFORMATION

General Information

This product should be used as directed. For further information, please consult product data sheets and application information bulletin for this product.

Further Information

The information contained herein is based on the present state of our knowledge. It characterizes the product regarding the appropriate health and safety precaution, and hazard information. It does not represent a guarantee of the properties of product.

Revision Comments

This safety data sheet supersedes all previous issues and users are cautioned to ensure that it is correct.

17. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.