



DOLPHIN RADIATOR COOLANT

Last Revision Date : 23.11.2017
Revision No. : 01

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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, sales@muqarram.com

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, 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 INGREDIENTS

Chemical Identity	CAS #	Wt. %
DM Water	7732-18-5	60 – 80
MEG	107-21-1	10 – 30
Color	-----	Traces
Additives	9004-62-0	5 – 10

Not hazardous

4. FIRST AID MEASURES

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

Eyes : Flush eyes with large amounts of water. Make sure to remove any contact lenses for the eyes before rinsing. If signs/symptoms persist, get medical attention.

Ingestion : Immediately rinse the mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Skin Contact : Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation : Remove person to fresh air. Perform artificial respiration in the case difficult breathing. If signs/symptoms develop, get medical attention.



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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

DANGER: Harmful or Fatal if swallowed!

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 container 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 safety 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



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Prevention of swallowing	following material(S) are recommended. Polyethylene /EVA. 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	Mild
pH	7 – 8
Flammable limits - LEL	3.2 %
Flammable limits - UEL	15.3 %
Boiling Point	168°C
Solubility In Water	100 %
Density	1.10± 0.01 gm/cm ³
Viscosity	35 seconds on Zahn Cup.

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



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Eco-toxicity	No data available.
Persistence and Degradability	No data available.
Bioaccumulation	No information available.
Mobility	Can disperse in water
Other Adverse Effects	No information available.

13. DISPOSAL CONSIDERATIONS

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

UN No. Sea / Air	1950
Proper Shipping Name	Radiator Coolant
Technical / Chemical Name	Radiator Coolant
IMDG Class	2.1
IMDG page no.	2102
Subsidiary Hazard (S) IMO Class & Div.	2.1
Emergency Schedule (EMS)	F-D, S-U
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 causes 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 with

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regard to 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.

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.