SHIELD RADIATOR WATER

Revision Number: 1 Revision Date: 15/01/2020

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SHIELD RADIATOR WATER

Product Use: Anti-freeze engine coolants

Company Identification

Kuwait Dana Lubes Company

Postal Box: 9150

Ahmadi – Kuwait – 61001.

Emergency Telephone Number

(965) 23260723

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn ; Harmful

R22: Harmful if swallowed.

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008:

The substance is classified and labeled according to the CLP regulation.

Hazard pictograms:

Signal word: Warning

GHS07

Hazard statements: H302 Harmful if swallowed.

Precautionary statements:

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

EFFECTS OF A SINGLE OVEREXPOSURE

Swallowing

May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, lumbar

Pain, Liguria, uremia, and central nervous system effects, including irregular eye movements, convulsions, and coma.

Cardiac failure and pulmonary edema may develop. Severe kidney damage follows the swallowing of large volumes of Ethylene

Glycol. May be fatal. A few reports has been published describing the development of weakness of the facial muscles, diminished

hearing, and difficulty with swallowing, during the late stages of severe poisoning.

Skin Absorption

No evidence of harmful effects from available information

Inhalation

May cause irritation of the nose and throat with headache, particularly from mist. High vapor concentrations caused, for example, by heating the material in an enclosed and poorly ventilated workplace may produce nausea, vomiting, headache, dizziness, and irregular eye movements.

Skin Contact

No evidence of harmful effects from available information.

Eye Contact

Liquid, vapor or mist cause irritation, experienced as stinging, excess blinking and tear production, with excess redness of the conjunctiva. In jury to the cornea is not expected.

EFFECTS OF REPEATED OVEREXPOSURE

Repeated inhalation of Ethylene Glycol mist may produce sings of central nervous system involvement, particularly dizziness and nystagmus.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE

May aggravate an existing kidney disease

OTHER EFFECTS OF OVEREXPOSURE

Repeated skin contact with Ethylene Glycol may, in a very small proportion of cases, cause sensitization with the development of allergic contact dermatitis. The incidence is significantly less than 1% with the undiluted material.

3. COMPOSITION/INFORMATION ON INGREDIENTS

S.NO	COMPOSITION	CAS NO	AMOUNT
1.	Water	7732-18-5	100%

There are no additional items present the supplier has a knowledge of and in the concentrations applicable classified as hazardous to health or the environment or have been assigned a workplace exposure limit and hence require reporting in this section.

4. FIRST AID MEASURES

EYE: Flush immediately with water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops.

INGESTION: **DO NOT INDUCE VOMITING.** If conscious, give 2 glasses of water. Get immediate medical attention.

INHALATION: Remove exposed person to fresh air and provide oxygen if breathing is difficult. Get medical attention

5. FIRE FIGHTING MEASURES

Flash point (COC):	>129°C
Auto Ignition:	NDA
Upper Flammable Limit:	NA
Lower Flammable Limit:	NA
Extinguishing Media:	CO_2, Dry Chemical, Foam, Water Fog

Firefighting procedures:	Recommend wearing self-contained breathing apparatus. Water may cause splattering.
Combustion products:	Normal combustion forms carbon dioxide, water vapor, and may produce oxides of Sulfur and Nitrogen. Incomplete combustion may produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Environmental protection: The material is not expected to be harmful to aquatic organisms. Stop the source of leak or release. Remove with vacuum trucks or pump to storage salvage vessels. Soak up residue with an absorbent such as Clay, Sand or other suitable materials.

7. HANDLING AND STORAGE

Handling Procedure:	Keep containers closed when not in use. Handling temperatures should not exceed 70°C.
Storage Procedure:	Keep containers in cool and dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE:	Eye protection is required. Recommended chemical goggles or face shield.
SKIN:	Protective clothing and gloves are normally required.
VENTILATION:	Proper ventilation is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	
Boiling Point:	NA
Melting Point:	NA
Freezing Point:	NA
Solubility in Water:	NA

Vapor Pressure:	<0.1mmHg
Vapor Density (Air =1):	NA
PH:	8-9

10. STABILITY AND REACTIVITY

Stability:	Stable
Incompatibility:	May react with strong oxidizing agents, such as Chlorates, Nitrates, Peroxides, etc.
Hazardous Polymerization:	Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Basis for assessment: Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

Information on likely routes of exposure:

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute Toxicity

Acute oral toxicity:	Harmful if swallowed
Acute inhalation toxicity:	Not classified.
Acute dermal toxicity:	Can cause damage at prolonged contact

Skin corrosion/irritation:

Not classified.

Serious eye damage/eye irritation:

Not classified.

Respiratory or skin sensitization

Not classified.

Aspiration Hazards

Not classified.

Germ cell mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

TOST - Single exposure

Not classified.

TOST - Repeated exposure

May cause damage to organs (kidneys) through prolonged or repeated exposure (on ingestion).

Further information

Ingestion may cause nausea, vomiting and diarrhea. May cause irritation to the eyes. Symptoms include: Disturbances of consciousness. Damage to kidneys.

12. ECOLOGICAL INFORMATION

Environmental impact: This material is not expected to be readily biodegradable.

Eco toxicity: This material is not expected to be harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Material, if discarded, not expected to be characteristic hazardous waste. Disposal should be in compliance with federal, state, and local laws.

14. TRANSPORT INFORMATION

Department of Transportation classification:

Not hazardous by D.O.T. regulations.

DOT Proper Shipping Name: Not Applicable

Other Requirements: Not Applicable

15. REGULATORY INFORMATION

SARA 311 Categories:

1.Immediate (Acute) Health Effects: NO
2.Delayed(Chronic) Health Effects: NO
3.Fire Hazard: NO
4.Sudden Release of Pressure Hazard: NO
5.Reactivity Hazard: NO

STATE REGULATORY INFORMATION:

Based on information available this product does not contain any chemical substance regulated by a specific state law.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; reactivity 0;
HMIS RATINGS: Health 1; Flammability 1; reactivity 0;
(0- Least, 1- Slight, 2- Moderate, 3- High, 4- Extreme, PPE- Personal)

Revision statement: This is a new Material Safety Data Sheet.

ABBREVIATION THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

NDA: No Data Available
CAS: Chemical Abstract Service Number
NFPA: National Fire Protection Association
NA: Not Applicable

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