PO BOX 9699
Bloemfontein
9300

Fax: 051 433 4337
Mobile: 082 800 4599
E-mail: bertus@fleetline.co.za
Website: www.fleetline.co.za

BIG ENOUGH TO SERVE – SMALL ENOUGH TO CARE

FLEETLINE ANTIFREEZE/SUMMER COOLANT
MONO-ETHYLENE GLYCOL CONCENTRATE 95%

Fleetline antifreeze / summer coolant is a blend of M.E.G and a wide range of corrosion inhibitors,for maximum protection mixed with 50% of water,it will lubricate the water pump, provides protection against extreme temperatures. Can be used in cooling system of petrol and diesel engines, particularly those incorporating aluminum alloys up to - 36 °

APPLICATION

- Automotive
- construction
- earthmoving, quarrying and mining
- Agricultural equipment

BENEFITS

Silicate free type inhibitor system provides exceptional protection
Protects all engins,cooling systems,and metals such as iron, steel, aluminium, copper and solder alloys against corrosion

PERFORMANCE LEVELS

MEETS OR EXCEEDS

MB 325.0	**ASTM D330**
SABS 1251	**SAE J1034**
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RECOMMENDED MIXTURE RATIOS:

25% Dilution -12 ℃
33% Dilution -18 ℃
50% Dilution -36.5 ℃

TYPICAL PHYSICAL CHARACTERISTICS	
Colour ASTM	BLUE
Density, KG/L @20ºC	1.133
Equilibrium Boiling Pt. (undiluted)ºC	170
Freezing Pt (50 Vol % Solution)ºC	-36,5
Ph,50 Vol % Solution	7
Reserve Alkalinity ml 0,1N HCL	15
Setting Point ºC	-45

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	FLEETLINE ANTIFREEZE
Manufacturer/Supplier	FLEETLINE INDUSTRIAL LUBRICANTS P.O.Box 14527 1422
Phone Number	(011) 827-5848 (011) 827-5832

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Hazardus Components in Product

Component Name	Codes	Concentration	R Phrases	Classification
MONO ETHYLENE GLYCOL		95.00		
COROSION INHIBITORS		5.00		

3. HAZARD IDENTIFICATION

Main Hazards	Hazardous according to OSHA 29 CFR 1910.1200
Health Effects – Eyes	Will cause irritation and damage to the eyes.
Health Effects – Skin	No hazard providing normal cleansing is carried out.
Health Effects – Ingestion	Ingestion can result in vomiting, nausea, abdominal pain, convulsions and kidney failure. The ingestion of more than 100ml can result in death.
Health Effects – Inhalation	High levels of vapour may result in toxic effects.

4. FIRST AID MEASURES

First Aid – Eyes	Flush thoroughly with water. If irritation occurs, call a doctor.
First Aid – Skin	Wash skin with soap and water.
First Aid – Ingestion	Give 1 to 2 glasses of water and call a doctor immediately. If advice not available and patient is conscious induce vomiting by sticking finger down throat.
First Aid – Inhalation	Remove from exposure and seek medical assistance.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical dioxide, foam or water fog.
Unsuitable Extinguishing Media	Water or foam may cause frothing.
Special Hazards of Product	No special hazards.
Protective Equip, for Fire-Fighting	Wear self-contained breathing apparatus for fires in enclosed spaces.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Material can create slippery conditions underfoot.
Environmental Precautions	Try to prevent the material from entering drains or watercourses.
Spillages	Contain and absorb using diatomaceous earth or other inert material. Transfer into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling	No special precautions are required.
Storage	Storage temperature should be controlled to between 1 and 40 ℃. Where outside storage of drums is unavoidable, they should be stored horizontally to avoid ingress of water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	
OIL MIST, CHEMICAL	OSHA STEL 127mg/m³
Engineering Control Measures	Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of industrial Hygiene will enable this material to be used safely.
Respiratory Protection	Respiratory protection is required if ventilation is inadequate.
Hand Protection	Impervious gloves should be used for prolonged contact with skin and good personal hygiene practices should always be followed.
Eye Protection	Chemical goggles and face mask if there is a risk of contact.
Body Protection	Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Fluorescent
Odour	None
pH	7.0 to 7.3
Boiling Range/Point (ºC)	Boils above 165ºC
Flash Point (PMCC) (ºC)	Exceeds 110 ºC
Solubility in Water (kg/m³)	Soluble
Density (kg/m³)	1.12 kg per liter
Auto-flammability (ºC)	Above 200ºC

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to Avoid	Extreme heat
Materials to Avoid	Strong oxidizing agents
Hazardous Decomposition Products	Combustion will generate carbon monoxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Small quantities ingested, inhaled or absorbed repeatedly over a long period may result in systematic toxic effects.

12. ECOLOGICAL INFORMATION

Mobility	The product will leach into soil and will dissolve in water.
Persistence/Degradability	The product is expected to biodegrade very slowly with time.

13. DISPOSAL

Product Disposal	Dispose of in accordance with all applicable local and national regulations.
Container Disposal	An approved drum recycler can recycle containers.

14. TRANSPORT INFORMATION

Un Class	9
IMO Class	9
IMDG Class	Not classified
IATA Class	N/A

15. REGULATORY INFORMATION

Labelling information	Harmful
Government Inventory Status	All components with TSCA, EINECS/ELINS,ALCS and MITI
US Superfund Amendments	This product contains no “Extremely Hazardous Substances”

16. OTHER INFORMATION

MSDS First Issued	01 May 2001
MSDS Data Revised	01 May 2004
Product Use	Concentrated antifreeze solution

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.