SAFETY DATA SHEET

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: Antifreeze 50% Premix

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: universal engine coolant
- Use advised against: Do not use in any other application.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Harrier Fluid Power Ltd T/A Flowfit
- Address of Supplier: Harrier Fluid Power Ltd T/A Flowfit,
  Parys Road,
  Ludlow,
  SY8 1XY,
  UK
- Telephone: +44 (0)1584 876 033 Office hours only.
- Email: sales@flowfitonline.co.uk

1.4 Emergency telephone number

- Emergency Telephone: +44 (0)1584 876 033

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- CLP: Classification - EC1272/2008
- CHIP: Classification -67/548/EEC

2.2 Label elements

MANUFACTURERS AND SUPPLIERS OF HYDRAULIC COMPONENTS

ANTIFREEZE 50% PREMIX

Product Description:

Antifreeze 50% Premix is a universal engine coolant suitable for all year round usage which is used in all systems of gasoline and diesel engines. It is also capable of protecting the static cooling systems in industry. The product consists of monoethylene glycol and distilled water, it contains no nitrite, or amine orphosphate. If in doubt about the performance and compatibility of this product in place, it is recommended to drain the system, to rinse and refill it with Antifreeze 50% Premix. Antifreeze 50% Premix is ideal for modern engines operating at high temperatures.

Benefits:

- All year round performance.
- Long Service Life.
- Protects engine cooling systems.

Applications:

Antifreeze 50% Premix protects multi-metal (steel, cast iron, aluminum, brass, copper, tin) against chemical or electrolytic corrosion and is compatible with elastomers normally used in these systems and provides total protection against freezing. It is strongly advised not to use hard water and not to dilute as this could cause damage to system cooling in the form of corrosion or deposits.

Product Profile:

BS 6580 (1992) (UK)
AFNOR NF R 15-601 (France)
ÖNORM V5123 (Austria)
A 26-361 (Spain)
ASTM D-3306 (USA)
JIS K 2224 (Japan)

Typical Test Data:

Visual Colour -	Blue
Density @ 15 °C	ASTM D4052 kg / m³ 1080
ASTM D1121 Reserve Alkalinity ml 0.1 N HCl	> 10
ASTM D1287 pH	- 8.0
Freezing point (First crystals)	ASTM D1177 -35 ° C

Harrier Fluid Power Ltd T/A Flowfit, Parys Road, Ludlow Business Park, Ludlow, Shropshire SY8 1XY
Telephone: +44 (0)1584 876 033 Fax: +44 (0)1584 876 044
Email: sales@flowfitonline.com

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- ethanediol; ethylene glycol
  CAS Number: 107-21-1
  EC Number: 203-473-3
  REACH Registration Number: 01-2119456816-28
  Concentration: 25-30%
  R/H Phrases: H302, R22
- disodium tetraborate pentahydrate; borax pentahydrate
  CAS Number: 12179-04-3
  EC Number: 215-540-4
  REACH Registration Number: 01-2119490790-32
  Concentration: 5-10%
  R/H Phrases: H360FD, R60,R61

SECTION 4 First aid measures

4.1 Description of first aid measures

- Inhalation
  Remove patient to fresh air
  When in doubt or symptoms persist, seek medical attention
- Contact with eyes
  If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
  When in doubt or symptoms persist, seek medical attention
- Contact with skin
  Wash the skin immediately with soap and water., Get medical attention if any discomfort continues.
- Ingestion
  S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

4.2 Most important symptoms and effects, both acute and delayed

- No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

- No further relevant information available.

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- S43 - In case of fire use alcohol resistant foam
- P370+P378 - In case of fire: use water jets for extinction

SECTION 5 Fire-fighting measures (....)

- P370+P378 - In case of fire: use sand or earth for extinction

5.2 Special hazards arising from the substance or mixture

- In case of fire, the following can be released: Carbon monoxide (CO) CO2

5.3 Advice for firefighters

- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece
  operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for
  chemical incidents.
- Water spray should be used to cool containers. Dike and collect extinguishing water.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- S36 - Wear suitable protective clothing
- Keep people and animals away

6.2 Environmental Precautions

- Any spillage needs to be contained and not allowed to enter water courses.

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Sweep or shovel-up spillage and remove to a safe place
- Seal containers and label them

6.4 Reference to other sections

- For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- Keep containers tightly sealed.
  Ensure good ventilation.
  Open and handle container with care.
  Prevent formation of aerosols.

7.2 Conditions for safe storage, including any incompatibilities

- Store incorectly labelled containers.
- S7/8 - Keep container tightly closed and dry
- P235+P410 - Keep cool. Protect from sunlight.

7.3 Specific end use(s)

- See Section 7

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

SECTION 8 Exposure controls/personal protection (....)

- Short-term value: 104 mg/m³, 40 ppm
  Long-term value: 52 mg/m³, 20 ppm

8.2 Exposure controls

- General protective and hygienic measures:
  The usual precautionary measures are to be adhered to when handling chemicals.
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing
  Wash hands before breaks and at the end of work.
  Store protective clothing separately.

  Respiratory protection:
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use
  self-contained respiratory protective device.
  Filter A/P2

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Liquid
- Odour: Mild
- Freezing point/Range: No information available
- Boiling Point/Range: No Data Available
- Flashpoint: 111C
- Oxidising Properties:
- Autoignition Temperature 400C
- Explosive Properties: Lower: 3.2 Vol %
  Upper: Not determined.

9.2 Other information

- The figures in this section are for guidance only please always use them in conjunction with the technical data sheet.

SECTION 10 Stability and reactivity

10.1 Reactivity

- Considered stable under normal conditions

10.2 Chemical stability

- This article is considered stable under normal conditions

10.3 Possibility of hazardous reactions

- None Known

10.4 Conditions to avoid

SECTION 10 Stability and reactivity (....)

- No special precautions are required for this product

10.5 Incompatible materials

- Incompatible with acids and alkalis
- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful

SECTION 12 Ecological information

12.1 Toxicity

- No Data Available

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not applicable.

12.6 Other Adverse Effects

- No information available

SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- We recycle 205L and 1000L packaging.

SECTION 14 Transport information

14.1 UN Number

- UN No.: Not classified as hazardous for transport

14.2 UN Proper Shipping Name

- Proper Shipping Name: Not classified as hazardous for transport

SECTION 14 Transport information (....)

14.3 Transport hazard class(es)

- Hazard Class:

14.4 Packing group

- Packing Group: ICAO Packing group N/A, IMDG Packing group N/A

14.5 Environmental hazards

- Not classified.

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not relevant

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Labelling according to Regulation (EC) No 1272/2008 GHS label elements

15.2 Chemical Safety Assessment

- A chemical safety assessment (CSA) for this product has not yet been completed

SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H360FD: May damage fertility. May damage the unborn child. R22: Harmful if swallowed. R60: May impair fertility. R61: May cause harm to the unborn child.
Disclaimer

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process