

**PRODUCT DATA SHEET & MSDS**



**DESCRIPTION:**

Blue Chip Coolblu – LL is a premium performance, 50:50 premixed and ready to use, engine coolant, anti-freeze and corrosion inhibitor. It is based on extended-life organic acid technology in ethylene glycol. Coolblu – LL provides long-term protection for cooling systems of diesel and petrol engines.

**PRODUCT FEATURES:**

- Minimises corrosion and prevents galvanic attack caused by dissimilar metals e.g. steel, cast iron, copper and aluminium.
- Organic acid technology provides improved heat transfer from metal surfaces to the coolant.
- Compatible with all common metals, rubbers and plastics used in cooling systems.
- Protects against freezing in winter and boiling in summer.

**APPLICATIONS:**

Blue Chip Coolblu – LL is recommended for use in all diesel and petrol engine cooling systems that need protection against freezing, boiling and corrosion. For maximum protection and convenience it is premixed 50:50 with water. It is ready for use and no water should be added.

Recommended maximum service intervals:

- Passenger cars and light commercial vehicles – 250,000 km or 5 years
- Heavy-duty diesel, on-road – 500,000 km or 4 years
- Heavy-duty diesel, off-road – 7,000 hours or 4 years

**TECHNICAL DATA:**

PROPERTY	UNITS	COOLBLU - LL
pH Value		8.2
Freezing Point	°C	-38
Water Content	%	52
Density at 20°C	Kg/l	1.06
Appearance	Visual	Red

**PERFORMANCE LEVEL**

**Industry Standards:**

- |                      |                      |                 |
|----------------------|----------------------|-----------------|
| • ASTM D3306 & D4985 | • NATO S 759         | • SAE J 1034    |
| • BS 6580 (1992)     | • AFNOR NF R15-601 * | • FFV Heft R443 |
| • CUNA NC 956-16     | • UNE 26361 - 88     | • JIS K 2234 *  |
- (\* with the exception of reserve alkalinity)

**OEM Specifications:**

- |                        |                           |                         |
|------------------------|---------------------------|-------------------------|
| • CHRYSLER MS 9176     | • CUMMINS 85T8-2 & 90T8-4 | • FORD ESE M97B49-A,    |
| • FORD WSS-M97B44-D    | • FORD ESD M97 B49-A      | • GM 1899 M             |
| • GM US 6277 M         | • OPEL GM QL130100        | • JOHN DEERE H 24 B1/C1 |
| • LEYLAND LTS 22 AF 10 | • MACK 014GS 17004        | • MAN 248, 324 (SNF)    |
| • B&W D 36 5600        | • MERCEDES-BENZ MB 326.3  | • RENAULT 41-01-001     |
| • VAG TL 774F          | • VOLVO                   |                         |

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All reasonable care has been taken to ensure that the information contained in this publication is accurate at the date of printing. It should be noted however that the information may be effected by changes subsequent to the date of printing in the blend formulation or methods of application of any of the products referred to or in the requirements of any specification approval relating to any such products.

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**1. PRODUCT IDENTIFICATION**

Product : Premixed long life antifreeze and cooling system protector.  
 Company Identification : COOLBLU - LL  
 Substance / Preparation : Preparation  
 Product Use : Formulated for use in cooling systems of petrol and diesel engines.

**2. COMPOSITION**

Chemical Composition : Glycol, additives and water.  
 Hazardous Components : Mono Ethylene Glycol (MEG)

**3. HAZARDS IDENTIFICATION**

Hazards : Contact can cause irritation of skin, eyes and respiratory tract. Extremely dangerous in case of ingestion. For more information refer to Section 11.

**4. FIRST AID MEASURES**

Eye Contact : Flush eyes thoroughly with water. Obtain medical advice if any irritation occurs.  
 Skin Contact : Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin thoroughly. If irritation persists obtain medical attention.  
 Ingestion : DO NOT induce vomiting because of danger of aspirating liquid into lungs. Seek medical attention immediately. Never give anything by mouth to an unconscious person.  
 Inhalation : Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform artificial respiration. Allow the victim to rest in a well-ventilated area. Seek medical attention.

**5. FIRE FIGHTING MEASURES**

Extinguishing media : In case of fire use water sprays, fog or standard foam is recommended. DO NOT USE water jets. Water may be used to cool nearby heat exposed areas /objects /packages. Avoid spraying directly into storage containers because of the danger of boil-over. Move container away from fire area if you can do it without risk.  
 Special hazards : Fires in confined areas should be dealt with by trained personnel wearing approved breathing apparatus. Toxic fumes may be evolved on burning or exposure to heat.  
 Protective clothing : Use suitable protective breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Any spillages should be regarded as a potential fire risk. In the event of spillage, remove all sources of ignition and ensure good ventilation. Spilled material may make surface slippery. Clean up spilled material immediately. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.  
 Environmental precautions : Do not wash product into drainage systems, protect drains from potential spills to minimize contamination.  
 In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover from the surface. Protect environmentally sensitive areas and water supplies. Minimize contact of spilled material with soils to prevent runoff to surface waterways.  
 Small Spills : For small spills clean up the material immediately. Contain and recover spilled material using sand or other suitable inert absorbent material.  
 Large Spills : Recovery of large spills should be affected by specialist personnel.

**PRODUCT DATA SHEET & MSDS**



**7. HANDLING AND STORAGE**

- Handling precautions : Avoid contact with skin and observe good personal hygiene. Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths in pockets. Take necessary precautions against accidental spillage into soil and water. Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times.
- Storage precautions : Store under cover away from heat and sources of ignition.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Occupational Exposure Limits : There is no appropriate occupational exposure limit to this material.
- Engineering controls : The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.
- Personal Protective Equipment
- Respiratory system : Respiratory protection is unnecessary, provided the concentration of vapour, mists or fumes is adequately controlled. The use of respiratory equipment must be strictly in accordance with any statutory requirements governing its selection and use.
- Hands : Use chemical resistant, impervious gloves.
- Eyes : Safety glasses with side shields. Goggles with a face shield may be necessary depending on quantity on material and conditions of use.
- Skin : Disposable outer garments where there is the potential for contact with the material.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

PROPERTY	UNITS	COOLBLU - LL
pH Value		8.2
Freezing Point	°C	-38
Water Content	%	52
Density at 20°C	Kg/l	1.06
Appearance	Visual	Red

**10. STABILITY AND REACTIVITY**

- Conditions to avoid : Sources of ignition. Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gasses, including carbon monoxide.
- Incompatible Materials : Avoid contact with strong oxidizing agents
- Stability : Stable at ambient temperatures. Hazardous polymerization reactions will not occur.

**11. TOXICOLOGICAL INFORMATION**

- Skin contact : Slightly hazardous in case of skin contact (irritant).
- Eye contact : Slightly hazardous in case of eye contact (irritant).
- Ingestion : Extremely dangerous in case of ingestion.
- Inhalation : Slightly hazardous in case of inhalation (lung irritant). Can cause nausea, headaches and vomiting.

**12. ECOLOGICAL INFORMATION**

- Aquatic toxicity : Spills may cause physical damage to organisms; oxygen transfer could also be impaired.
- Biodegradability : This product is inherently biodegradable.
- Bio-accumulation : There is no evidence to suggest bio-accumulation will occur.
- Mobility : Spillages may penetrate the soil causing ground and water contamination.

**PRODUCT DATA SHEET & MSDS**



**13. DISPOSAL CONSIDERATIONS**

Disposal Methods : Where possible, arrange for the product to be recycled. Dispose via an authorised person / licensed waste disposal conductor in accordance with local regulations.

**14. TRANSPORT INFORMATION**

Road Transport : Not classified as hazardous for transport

**15. REGULATORY INFORMATION**

EEC hazard classification : EU Regulation (EC) No. 1907/2006 (REACH)

**DATE REVISED: 25 July 2016 (First Revision)**

DISCLAIMER

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