

SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

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CLEARWINNER CFI COLD FLOW IMPROVER

Revision 3

Revision date 2012-04-20

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

1.1. Product identifier

Product name	CLEARWINNER CFI COLD FLOW IMPROVER
Product code	QAFS664

1.3. Details of the supplier of the safety data sheet


Company	Clearwinner Innovation Ltd
Address	Tadcaster North Yorkshire LS24 9AL

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xn; R40-65 N; R51/53 R66 Symbols: Xn: Harmful. N: Dangerous for the environment.
Main hazards	Limited evidence of a carcinogenic effect. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Symbols	Xn: Harmful. N: Dangerous for the environment. 
Risk phrases	R40 - Limited evidence of a carcinogenic effect. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 - Harmful: may cause lung damage if swallowed. R66 - Repeated exposure may cause skin dryness or cracking.
Safety phrases	S2 - Keep out of the reach of children. S24/25 - Avoid contact with skin and eyes. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27/28 - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. S36 - Wear suitable protective clothing. S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Kerosine - unspecified - distillates (petroleum), hydrotreated light FUELS, DIESEL Number2	649-422-00-2	64742-47-8	265-149-8		70 - 80%	Xn; R65
					20 - 30%	Xn; R40 N; R51/53 R66

Further information

Product Description & Uses	Stratus Arctic 1000 is used in Diesel Fuel to act as a pour point depressant.
Product Shelf Life	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention. Risk of serious damage to eyes.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.

General information

	If you feel unwell, seek medical advice (show the label where possible). Wash all contaminated clothing before reuse.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Advise local authorities if large spills cannot be contained.
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6.3. Methods and material for containment and cleaning up

	Extinguish all ignition sources. Avoid sparks, flame, heat and smoking. Ventilate. Clean up personnel should use respiratory and/or liquid contact protection. Wash thoroughly after dealing with a spillage. Collect with absorbant, non-combustable material into suitable containers. Dike far ahead of larger spills for later disposal. CONTAIN SPILLAGE. DO NOT WASH SPILLAGE DOWN DRAINS. May cause slippery surfaces.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Where prolonged or repeated exposure is likely PROTECTIVE CLOTHING should be worn including impervious gloves and eye protection. Follow the principles of good occupational hygiene to control personal exposure.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep out of the reach of children. Store in correctly labelled containers. Store in original container.
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7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Protect from light, including direct sun rays. Store at moderate temperatures in a dry well ventilated area.

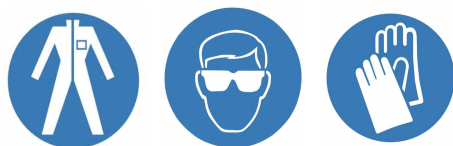
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Kerosine - unspecified - distillates (petroleum), hydrotreated light	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 5
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 10

8.2. Exposure controls



8.2.2. Individual protection measures

Avoid contact with eyes and skin. Wash all contaminated clothing before reuse. Adopt best Manual Handling considerations when handling, carrying and dispensing.

Eye / face protection

Avoid contact with eyes. Provide eye wash station. Approved safety goggles.

Skin protection - Handprotection

Chemical resistant gloves (plastic).

Respiratory protection

Not normally required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Amber
Odour	Characteristic
Boiling point	240
Flash point	70
Flammability limits	Not Classified Flammable but may support Combustio
Vapour pressure	0.35kPa@20c
Relative density	0.82 to 0.90
Autoignition temperature	>200C

Water solubility

Immiscible in water.

SECTION 10: Stability and reactivity

10.2. Chemical stability

Normally stable. Avoid: Heat, sparks , flames.

10.3. Possibility of hazardous reactions

Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system.

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11.1. Information on toxicological effects

Skin corrosion/irritation	Skin: Frequent or prolonged contact may irritate and cause dermatitis.
Repeated or prolonged exposure	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.

11.1.4. Toxicological Information

	<p>ASPIRATION HAZARD- Do not breath vapour or spray,- May cause lung damage if material gets into the lungs after accidental swallowing or vomiting of ingested material. Toxicity following a single exposure to high levels of Kerosines (oral, dermal, inhalation) is of a very low order. Prolonged contact or repeated contact may cause drying of the skin and possibly dermatitis. Prolonged inhalation of mists may cause lung inflammation. Contact with eyes is likely to cause irritation with short term redness and stinging.</p>
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SECTION 12: Ecological information

12.2. Persistence and degradability

	INHERENT.
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12.3. Bioaccumulative potential

	This product has the potential to bio-accumulate.
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12.4. Mobility in soil

	Slightly soluble in water. Product floats on the surface of the water. In soil the product has only slight mobility and will partially evaporate.
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12.6. Other adverse effects

	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Further information

	Ecotoxicological studies have shown a very low order of toxicity with this type of material. LC50 (96hr) - Fish >1,000ppm: EC50 (24hr)- Daphnia >250ppm: IC50(72hr)- Alge 20ppm:.
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SECTION 13: Disposal considerations

Disposal methods

	Confirm Disposal procedures with environmental engineer and local regulations. Do not allow runoff to sewer, waterway or ground. Incinerate in suitable combustion chamber.
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Disposal of packaging

	After final product withdrawal, all residues must be removed from containers (drip-free, powder-free or paste-free). Can be landfilled or incinerated, when in compliance with local regulations.
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SECTION 14: Transport information

Hazard pictograms

	
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14.1. UN number

	UN3082
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14.2. UN proper shipping name

	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fuels,Diesel, No.2)
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14.3. Transport hazard class(es)

ADR/RID	9
Subsidiary risk	-
IMDG	9
Subsidiary risk	-

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14.3. Transport hazard class(es)	
IATA	9
Subsidiary risk	-
14.4. Packing group	
Packing group	III
14.5. Environmental hazards	
Environmental hazards	Yes
Marine pollutant	Yes
ADR/RID	
Hazard ID	90
Tunnel Category	(E)
IMDG	
EmS Code	F-A S-F
IATA	
Packing Instruction (Cargo)	964
Maximum quantity	450 L
Packing Instruction (Passenger)	964
Maximum quantity	450 L

SECTION 15: Regulatory information

SECTION 16: Other information

Other information	
Revision	<p>This document differs from the previous version in the following areas:.</p> <p>2 - 2.1. Classification of the substance or mixture.</p> <p>9 - 9.1. Information on basic physical and chemical properties (State).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Colour).</p> <p>9 - 9.1. Information on basic physical and chemical properties (Odour).</p> <p>12 - 12.2. Persistence and degradability.</p> <p>12 - 12.6. Other adverse effects.</p> <p>14 - ADR/RID.</p> <p>14 - IMDG.</p> <p>14 - IATA.</p> <p>14 - Further information.</p> <p>15 - Labelling.</p> <p>15 - Risk phrases.</p>
Text of risk phrases in Section 3	<p>R40 - Limited evidence of a carcinogenic effect.</p> <p>R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R65 - Harmful: may cause lung damage if swallowed.</p> <p>R66 - Repeated exposure may cause skin dryness or cracking.</p>
Further information	
	<p>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.</p>