

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

CFX 1000 Opaque – Atom Orange
Product Code: 0700461855118

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses: Non Toxic coolant for component based Watercooling and HVAC systems

Uses advised against: Do not consume

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY NAME	WCUK Online Ltd
	Birch House
	Bradfield road
	Urmston
	Manchester, M41 9PF

1.4 EMERGENCY TELEPHONE NUMBER

EMERGENCY INFORMATION	Emergency: 112 from any phone (worldwide)
	Tel: +44(0)161 755 0145 (office hours only)
	Email : info@liquid.cool

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixtures

Not classified as hazardous according to CLP Regulation (EC) No. 1272/2008 - no hazard label elements required.

Physical and chemical hazards	Not classified as a physical or chemical hazard
Human health	Not classified as a health hazard
Environment	Not classified as an environmental hazard

2.2 LABEL ELEMENTS

HAZARD PICTOGRAMS	None required.
SIGNAL WORD	None required.
HAZARD STATEMENTS	None required.
PRECAUTIONARY STATEMENTS	None required.

2.3 OTHER HAZARDS.

Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Listed in order of concentration, all ingredients classified as non-toxic.

Component - Ultra PURE Distilled Water Concentration	78-90%
CAS No.	732-18-5

Component - Monoethylene glycol (ethane-1, 2-diol) inc DeTox™ Concentration	10-22%
EC No.	203-473-3
CAS No.	107-21-1

Component - 1,2-Benzisothiazolin-3-one Concentration	0.2-1.0%
CAS No.	2634-33-5

The classification listed for monoethylene glycol above is that which is listed, according to Regulation (EC) No. 1272/2008 (CLP) for neat monoethylene glycol. However, the monoethylene glycol present in this mixture is rendered non-toxic (as determined by an EPA certified laboratory) upon the addition of our labs patented DeTox™ additive.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES GENERAL INFORMATION

When safe to do so remove the person from the source of exposure giving consideration as to whether this may cause discomfort.

INGESTION

Move the affected person to fresh air and keep warm in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

INHALATION

Move the affected person to fresh air.

EYE CONTACT

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Material will not burn. Substance is non-combustible; use agent most appropriate to extinguish surrounding fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

None determined.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wash skin with soap and water.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Absorb spillage with damp, non-combustible material, then flush the contaminated area with water.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

No special measures necessary.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in distributed container, with induction seal intact (where applicable), keep out of reach of children and not in direct sunlight to preserve up to the maximum storage time stated below.

Storage stability:

Storage period: 36 months

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Specific end uses:

Ingredients with occupational exposure limits to be monitored: Not applicable

8.2 EXPOSURE CONTROLS

Exposure Controls	No exposure controls necessary.
Respiratory Protection	None required.
Hand Protection	None required.
Eye Protection	None required.
Body protection	None required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

FORM	Liquid
COLOUR	Orange
pH	7.5 – 8.0 (500g/l – 20°C)
ODOUR	Non-pungent but characteristic aroma
BOILING POINT	100°C
FLAMMABILITY	Product is not classified as flammable
DENSITY	1.04 - 1.15 (g/cm ³)
SOLUBILITY IN WATER	Soluble in water

9.2 OTHER INFORMATION

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

There are no known reactivity hazards associated with this product.

10.2 CHEMICAL STABILITY

Stable at normal conditions when used as recommended

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Not applicable

10.4 CONDITIONS TO AVOID

None known.

10.5 INCOMPATIBLE MATERIALS

Strong acids, strong alkalis and strong oxidising agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute oral toxicity:	The addition of our patented DeTox™ additive to monoethylene glycol results in a mixture that is classified as non-toxic with an LD50, oral, rat >15,000 mg/kg bw..
Irritant effect on eyes:	Non Irritant (rabbit)
Irritant effect on skin:	Non-irritant (rabbit)

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

LC50, 96 hours, fish:	>100 mg/L - not classified harmful to fish
EC50, 48 hours, daphnia magna:	>100 mg/L - not classified harmful to daphnia
EC50, 96 hours, aquatic plants:	>100 mg/L - not classified as harmful to plants

12.2 PERSISTENCE AND DEGRADABILITY

This product is readily biodegradable (90% over 10 days)

12.3 BIOACCUMULATIVE POTENTIAL

Will not bio-accumulate. Partition coefficient - not determined

12.4 MOBILITY IN SOIL

Product is mobile in soil as it is water soluble.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHOD

Dispose in accordance with Local Waste Disposal Authority EWC no:070101

Container is made from Polyethylene Terephthalate (PET) and is domestically recycling.

SECTION 14: TRANSPORT INFORMATION

TRANSPORT CLASS

Classified as non-dangerous goods for transport.

14.1 UN NUMBER

Product not hazardous for transport - no information required

14.2 PROPER SHIPPING NAME

Product not hazardous for transport - no information required

14.3 TRANSPORT HAZARD CLASS(ES)

Product not hazardous for transport - no information required

14.4 PACKING GROUP

Product not hazardous for transport - no information required

14.5 ENVIRONMENTAL HAZARDS

Product not classed as an environmentally hazardous substance or marine pollutant

- 14.6 SPECIAL PRECAUTIONS FOR USER Product not hazardous for transport - no information required.
- 14.7 TRANSPORT IN BULK ACCORDING TO AMEX 11 OF MARPOL 73/78 AND THE IBC CODE Product not hazardous for transport - no information required.

SECTION 15: REGULATORY INFORMATION

- 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance notes

CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for substances and preparations

- 15.2 CHEMICAL SAFETY ASSESSMENT Not determined.

SECTION 16: OTHER INFORMATION

This product should be stored, handled and used in accordance with the above data. The information contained herein is accurate to the best of our knowledge and belief and is intended to describe our products from a point of view of health and safety requirements. It should not, therefore, be construed as guaranteeing specific properties. This company shall not be held liable for any damage resulting from handling or from contact with the above product

Hazard statements in full

Our lab have developed a method of inhibiting the metabolisation of monoethylene glycol in the liver by the addition of our patented DeTox™ additive, thus preventing the release of the toxic metabolites - glycolic and oxalic acid - into the body. A test study by an EPA certified laboratory has determined that by the occurrence of synergistic and antagonistic effects, the addition of the DeTox™ additive to monoethylene glycol detoxifies it, resulting in a mixture with an LD50, oral, rat >15,000 mg/kg bw.

This product is Non-Toxic and readily biodegradable (90% over 10 days).

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