

**SAFETY DATA SHEET**  
according to Regulation (EU) 2015/830

Page 1/8

**Clearwinner HYDROS LA88**

Revision 6  
Revision date 2018-07-11

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

**1.1. Product identifier**

<b>Product name</b>	Clearwinner HYDROS LA88
<b>Product code</b>	QAFS734

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

<b>Product Use</b>	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU17] General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment;
<b>Description</b>	Clearwinner Hydros LA88 is a highly effective water dispersant and fuel systems cleaner. Acts as an anti microbial agent to prevent Diesel "bug" growth. For a complete mix dose fuel tank with Hydros prior to tank refill.

**1.3. Details of the supplier of the safety data sheet**


<b>Company</b>	Clearwinner Innovation Ltd
<b>Address</b>	Unit 2 Hastings Court Collingham Wetherby West Yorks LS22 5AW
<b>Telephone</b>	07595221498
<b>Email</b>	sales@clear-winner.co.uk
<b>Email address of the competent person</b>	sales@clear-winner.co.uk

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

<b>2.1.2. Classification - EC 1272/2008</b>	Acute Tox. 4: H302; Acute Tox. 4: H312; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332;
---	--

**2.2. Label elements**

<b>Hazard pictograms</b>	
<b>Signal Word</b>	Warning
<b>Hazard Statement</b>	Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled.
<b>Precautionary Statement: Prevention</b>	P280 - Wear protective gloves/protective clothing/eye protection/face protection.

## Clearwinner HYDROS LA88

Revision 6

Revision date 2018-07-11

## 2.2. Label elements

<b>Precautionary Statement: Response</b>	P301+P310+P330+P331 - IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of water/ . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to an approved disposal site, in accordance with local regulations.

## 2.3. Other hazards

<b>Other hazards</b>	PBT not identified as a PBT substance.
----------------------	--

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
2-butoxyethanol	603-014-00-0	111-76-2	203-905-0	01-2119475108-36	60 - 70%	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315;
2-Ethyl-1-hexanol (2-ethylhexan-1-ol)		104-76-7	203-234-3	01-2119487289-20	1 - 10%	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332; STOT SE 3: H335;

## Further information

<b>Product Shelf Life</b>	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.
---------------------------	--

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air.
<b>Eye contact</b>	Rinse immediately with plenty of water. Contact lenses should be removed.
<b>Skin contact</b>	Remove contaminated clothing. Wash with water and soap as a precaution.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Rinse mouth thoroughly.

## 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Harmful by inhalation. May cause irritation to respiratory system.
<b>Eye contact</b>	Harmful. Causes eye irritation.
<b>Skin contact</b>	Harmful in contact with skin. Causes skin irritation.
<b>Ingestion</b>	Harmful if swallowed. May cause irritation to mucous membranes.

## 4.3. Indication of any immediate medical attention and special treatment needed

<b>Inhalation</b>	Move the exposed person to fresh air. Seek medical attention. Show this safety data sheet to the doctor in attendance.
<b>Eye contact</b>	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.
<b>Skin contact</b>	Remove contaminated clothing. Seek medical attention. Show this safety data sheet to the doctor in attendance.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this container or label. Show this safety data sheet to the doctor in attendance.

## General information

	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.
--	---

## SECTION 5: Firefighting measures

## Clearwinner HYDROS LA88

Revision 6  
Revision date 2018-07-11

## 5.1. Extinguishing media

	This product is not flammable . Use fire-extinguishing media appropriate for surrounding materials.
--	---

## 5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
--	---

## 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
--	---

## Further information

	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
--	---

**SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

	Wear suitable protective equipment.
--	-------------------------------------

## 6.2. Environmental precautions

	Advise local authorities if large spills cannot be contained.
--	---

## 6.3. Methods and material for containment and cleaning up

	For large spills:. Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. For small spills:. Flush down the drain with plenty of water.
--	--

## 6.4. Reference to other sections

	See section 2, 7, 8, 13 for further information.
--	--

**SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Do not breathe vapours or spray mist. Adopt best Manual Handling considerations when handling, carrying and dispensing.
--	---

## 7.2. Conditions for safe storage, including any incompatibilities

	Store in a cool, dry area. Keep container tightly closed. Keep out of the reach of children. Store in original container.
--	---

## 7.3. Specific end use(s)

	No data is available on this product.
--	---------------------------------------

## Suitable packaging

	Plastic containers.
--	---------------------

**SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

	Occupational exposure controls.
--	---------------------------------

## 8.1.1. Exposure Limit Values

## Clearwinner HYDROS LA88

Revision 6  
Revision date 2018-07-11

## 8.1.1. Exposure Limit Values

2-butoxyethanol	WEL 8-hr limit ppm: 25	WEL 8-hr limit mg/m <sup>3</sup> : 123
	WEL 15 min limit ppm: 50	WEL 15 min limit mg/m <sup>3</sup> : 101.2
2-Ethyl-1-hexanol (2-ethylhexan-1-ol)	WEL 8-hr limit mg/m <sup>3</sup> total inhalable dust: -	WEL 15 min limit mg/m <sup>3</sup> total inhalable dust: -
	WEL 8-hr limit mg/m <sup>3</sup> total respirable dust: -	WEL 15 min limit mg/m <sup>3</sup> total respirable dust: -
	DIR: 2017/164	8hTWA mg/m <sup>3</sup> : 5.4
	8hTWA ppm: 1	STEL mg/m <sup>3</sup> : -
	STEL ppm: -	NOT: -

DNEL: Derived no-effect level.


## Exposure Pattern - Workers

2-butoxyethanol	Acute inhalation - Systemic effects	1091 mg/m <sup>3</sup>	Acute dermal - Systemic effects	89 mg/kg
	Acute inhalation - Local effects	246 mg/m <sup>3</sup>	Long-term - dermal - Systemic effects	125 mg/kg
	Long-term - inhalation - Systemic effects	98 mg/m <sup>3</sup>		

## Exposure Pattern - General population

2-butoxyethanol	Acute inhalation - Systemic effects	426 mg/m <sup>3</sup>	Acute oral - Systemic effects	26.7 mg/kg
	Acute dermal - Systemic effects	89 mg/kg	Long-term - inhalation - Local effects	147 mg/m <sup>3</sup>
	Long-term - inhalation - Systemic effects	59 mg/m <sup>3</sup>	Long-term - oral - Systemic effects	6.3 mg/kg
	Long-term - dermal - Systemic effects	75 mg/kg		

## 8.2. Exposure controls

	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.
8.2.1. Appropriate engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure eyewash stations and safety showers are close to the workstation location.
Eye / face protection	Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields.
Skin protection - Handprotection	Rubber gloves.
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
8.2.3. Environmental exposure controls	Prevent further leakage or spillage if safe to do so.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

## Clearwinner HYDROS LA88

Revision 6  
Revision date 2018-07-11

## 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Amber
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	No data available
<b>Initial boiling point</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	0.88 - 0.92 (H <sub>2</sub> O = 1 @ 20 °C)
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	< 100 centipoise
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	Soluble in water

## 9.2. Other information

<b>Conductivity</b>	No data available
<b>Surface tension</b>	No data available
<b>Gas group</b>	No data available
<b>Benzene Content</b>	No data available
<b>Lead content</b>	No data available
<b>VOC (Volatile organic compounds)</b>	No data available

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

Stable under normal conditions. No specific reactivity hazards associated with this product.

## 10.2. Chemical stability

Stable under normal conditions. No particular stability concerns.

## 10.3. Possibility of hazardous reactions

Strong acids. Strong oxidising agents.

## 10.4. Conditions to avoid

Protect from frost.

## 10.5. Incompatible materials

No incompatible groups noted.

## 10.6. Hazardous decomposition products

No Hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

<b>Acute toxicity</b>	This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP). Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.
-----------------------	---

## Clearwinner HYDROS LA88

Revision 6

Revision date 2018-07-11

## 11.1. Information on toxicological effects

Skin corrosion/irritation	Skin Irrit. 2: H315 - Causes skin irritation.
Serious eye damage/irritation	Eye Irrit. 2: H319 - Causes serious eye irritation.
Respiratory or skin sensitisation	based on available data the classification criteria are not met.
Germ cell mutagenicity	based on available data the classification criteria are not met.
Carcinogenicity	based on available data the classification criteria are not met.
Reproductive toxicity	based on available data the classification criteria are not met.
STOT-single exposure	based on available data the classification criteria are not met.
STOT-repeated exposure	based on available data the classification criteria are not met.
Aspiration hazard	based on available data the classification criteria are not met.

## 11.1.2. Mixtures

	No data available.
--	--------------------

## 11.1.3. Hazard Information

	No data available.
--	--------------------

## 11.1.4. Toxicological Information

2-Ethyl-1-hexanol	Inhalation Rat LC50/4 h: >0.89mg/l Oral Rat LD50: 2047mg/kg	Dermal Rat LD50: >3000mg/kg
-------------------	--	-----------------------------

## SECTION 12: Ecological information

## 12.1. Toxicity

2-butoxyethanol	EC50 for marine or freshwater organisms >100.0000 mg/l	LC50 for marine or freshwater organisms >100.0000 mg/l
2-Ethyl-1-hexanol	Daphnia EC50/48h: 39.0000 mg/l Algae EC50/72h: 11.5 mg/l	Fish LC50/96h: 28.2000 mg/l

## 12.2. Persistence and degradability

	Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guide lines.
--	--

## 12.3. Bioaccumulative potential

	No data is available on this product.
--	---------------------------------------

## Partition coefficient

	Clearwinner HYDROS LA88 No data available	2-butoxyethanol 0.8 log P
--	---	---------------------------

## 12.4. Mobility in soil

	No data is available on this product.
--	---------------------------------------

## 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
--	---------------------------------------

## 12.6. Other adverse effects

	No data available.
--	--------------------

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

	Dispose of waste and residues in accordance with local authority requirements.
--	--

## General information

	Dispose of in compliance with all local and national requirements.
--	--

## Clearwinner HYDROS LA88

Revision 6

Revision date 2018-07-11

## Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

## SECTION 14: Transport information

## 14.1. UN number

The product is not classified as dangerous for carriage.

## 14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

## 14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

## 14.4. Packing group

The product is not classified as dangerous for carriage.

## 14.5. Environmental hazards

The product is not classified as dangerous for carriage.

## 14.6. Special precautions for user

The product is not classified as dangerous for carriage.

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

The product is not classified as dangerous for carriage.

## SECTION 15: Regulatory information

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

## Regulations

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

## 15.2. Chemical safety assessment

No information available.

## SECTION 16: Other information

## Other information

## Revision

This document differs from the previous version in the following areas:.

- 2 - Precautionary Statement: Prevention.
- 2 - Precautionary Statement: Response.
- 2 - Precautionary Statement: Disposal.
- 4 - Eye contact.
- 4 - Skin contact.
- 11 - 11.1.4. Toxicological Information.
- 11 - Acute toxicity.
- 11 - Skin corrosion/irritation.
- 11 - 11.1. Information on toxicological effects.

## Clearwinner HYDROS LA88

Revision 6

Revision date 2018-07-11

## Other information

	<p>11 - Serious eye damage/irritation.  12 - 12.1. Toxicity.  14 - 14.6. Special precautions for user.  14 - 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.  16 - Data sources.</p>
<b>Data sources</b>	<p>Classification and Procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008:.</p> <p>Acute Tox. 4: H302 - Harmful if swallowed. - Calculation Method.  Acute Tox. 4: H312 - Harmful in contact with skin. - Calculation Method.  Skin Irrit. 2: H315 - Causes skin irritation. - Calculation Method.  Eye Irrit. 2: H319 - Causes serious eye irritation. - Calculation Method.  Acute Tox. 4: H332 - Harmful if inhaled. - Calculation Method.</p>
<b>Text of Hazard Statements in Section 3</b>	<p>Acute Tox. 4: H302 - Harmful if swallowed.  Acute Tox. 4: H312 - Harmful in contact with skin.  Skin Irrit. 2: H315 - Causes skin irritation.  Eye Irrit. 2: H319 - Causes serious eye irritation.  Acute Tox. 4: H332 - Harmful if inhaled.  STOT SE 3: H335 - May cause respiratory irritation.</p>
<b>Further information</b>	
	<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>