

# Contact Sheet



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Sunshine West, VIC 3020

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## Sparex Export Markets

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## SAFETY DATA SHEET QUALUBE UNIVERSAL ANTIFREEZE

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

#### 1.1. Product identifier

**Product name** QUALUBE UNIVERSAL ANTIFREEZE  
**Product number** ANTIFREEZE

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

**Identified uses** Antifreeze liquid.

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

**Supplier** WITHAM OIL AND PAINT LTD  
OUTER CIRCLE ROAD  
LINCOLN  
LN2 4HL  
01522 521192  
01522 537030  
01522 560228  
enquires@withamgroup.co.uk

**Manufacturer** Witham Group  
Stanley Road  
Oulton Broad  
Lowestoft  
Suffolk  
NR33 9ND  
Tel: 01502 563434  
Fax: 01502 500010  
enquiries@withamgroup.co.uk

#### 1.4. Emergency telephone number

**Emergency telephone** (01502)563434 Monday to Thursday 8.00am to 5.00pm, Friday 8.00am to 4.30pm.

### SECTION 2: Hazards identification

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

##### Classification

**Physical hazards** Not Classified  
**Health hazards** Acute Tox. 4 - H302 STOT RE 2 - H373  
**Environmental hazards** Not Classified

Classification (67/548/EEC or -  
1999/45/EC)

#### 2.2. Label elements

# QUALUBE UNIVERSAL ANTIFREEZE

## Pictogram



## Signal word

Warning

## Hazard statements

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

## Precautionary statements

P260 Do not breathe vapour/spray.

P264 Wash contaminated skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with national regulations.

## Contains

ETHANEDIOL

## 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### ETHANEDIOL

60-100%

CAS number: 107-21-1

EC number: 203-473-3

##### Classification

Acute Tox. 4 - H302

STOT RE 2 - H373

##### Classification (67/548/EEC or 1999/45/EC)

Xn;R22

##### DISODIUM TETRABORATE PENTAHYDRATE

1-5%

CAS number: 12179-04-3

EC number: 215-540-4

##### Classification

Eye Irrit. 2 - H319

Repr. 1B - H360FD

##### Classification (67/548/EEC or 1999/45/EC)

Repr. Cat. 2;R60,R61

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## Composition comments

Bitrex[Denatonium benzoate CAS 3734-33-6] may have been added in small quantities by customer request.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. Place unconscious person on the side in the recovery position and ensure breathing can take place.

##### Inhalation

Move affected person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

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<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

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

<b>Inhalation</b>	Upper respiratory irritation.
<b>Ingestion</b>	May cause stomach pain or vomiting. Nausea, vomiting.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	May cause temporary eye irritation.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of: Carbon.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled with water. Control run-off water by containing and keeping it out of sewers and watercourses.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains or watercourses or onto the ground. Collect and dispose of spillage as indicated in Section 13.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Stop leak if possible without risk. DO NOT touch spilled material! No smoking, sparks, flames or other sources of ignition near spillage. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
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## QUALUBE UNIVERSAL ANTIFREEZE

### 6.4. Reference to other sections

**Reference to other sections**    Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions**                Avoid inhalation of vapours/spray and contact with skin and eyes. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product.

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

**Storage precautions**            Keep away from food, drink and animal feeding stuffs. Keep only in the original container in a cool, well-ventilated place. Keep only in the original container in a cool, well-ventilated place. Keep containers upright. Store in closed original container at temperatures between 5°C and 25°C. Suitable container materials: Mild steel. Polyethylene. Stainless steel. Unsuitable container materials: Aluminium.

**Storage class**                        Chemical storage.

### 7.3. Specific end use(s)

**Specific end use(s)**                The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 60 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 125 mg/m<sup>3</sup>

#### ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m<sup>3</sup> vapour

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m<sup>3</sup> vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> particulate

Sk

#### DISODIUM TETRABORATE PENTAHYDRATE

Long-term exposure limit (8-hour TWA): WEL 1.0 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

**Ingredient comments**            WEL = Workplace Exposure Limits

#### DNEL

Industry - Inhalation; Long term local effects: 35 mg/m<sup>3</sup>

Industry - Dermal; Long term systemic effects: 106 mg/kg

Consumer - Inhalation; Long term local effects: 7 mg/m<sup>3</sup>

Consumer - Dermal; Long term systemic effects: 53 mg/m<sup>3</sup>

#### PNEC

- Fresh water; 10 mg/l

- Marine water; 1 mg/l

- STP; 199.5 mg/l

- Sediment (Freshwater); 20.9 mg/kg

- Soil; 1.53 mg/kg

- Intermittent release; 10 mg/l

### ETHANEDIOL (CAS: 107-21-1)

## QUALUBE UNIVERSAL ANTIFREEZE

<b>DNEL</b>	<p>Industry - Inhalation; Long term local effects: 35 mg/m<sup>3</sup>                      Industry - Dermal; Long term systemic effects: 106 mg/m<sup>3</sup>                      Consumer - Inhalation; Long term local effects: 7 mg/m<sup>3</sup>                      Consumer - Dermal; Long term systemic effects: 53 mg/m<sup>3</sup></p>
<b>PNEC</b>	<p>- Fresh water; 10 mg/l                      - Marine water; 1 mg/l                      - STP; 199.5 mg/l                      - Sediment (Freshwater); 20.9 mg/kg                      - Soil; 1.53 mg/kg                      - Intermittent release; 10 mg/l</p>

### DISODIUM TETRABORATE PENTAHYDRATE (CAS: 12179-04-3)

<b>DNEL</b>	<p>Consumer - Oral; Short term systemic effects: 1.15 mg/kg/day                      Industry - Inhalation; Short term local effects: 17.04 mg/m<sup>3</sup>                      Industry - Inhalation; Long term local effects: 17.04 mg/m<sup>3</sup>                      Industry - Inhalation; Long term systemic effects: 9.8 mg/m<sup>3</sup>                      Consumer - Inhalation; Short term local effects: 17.04 mg/m<sup>3</sup>                      Consumer - Inhalation; Long term local effects: 17.04 mg/m<sup>3</sup>                      Consumer - Inhalation; Long term systemic effects: 4.9 mg/m<sup>3</sup>                      Industry - Dermal; Long term systemic effects: 458.2 mg/kg/day                      Consumer - Dermal; Long term systemic effects: 231.8 mg/kg/day</p>
<b>PNEC</b>	<p>- Fresh water; 2.02 mg/l                      - Marine water; 2.02 mg/l                      - Intermittent release; 13.7 mg/l                      - Soil; 5.4 mg/kg                      - STP; 10.0 mg/l</p>

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

### Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

### Hand protection

It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Butyl rubber. Neoprene. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

### Other skin and body protection

Provide eyewash station and safety shower. Wear suitable protective clothing as protection against splashing or contamination.

### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2.

## QUALUBE UNIVERSAL ANTIFREEZE

<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
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### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Blue.
<b>Odour</b>	Odourless.
<b>Melting point</b>	-12°C
<b>Initial boiling point and range</b>	165°C @ 760 mm Hg
<b>Flash point</b>	111°C CC (Closed cup).
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 3.2
<b>Vapour pressure</b>	0.05 kPa @ 20°C
<b>Vapour density</b>	2.14
<b>Relative density</b>	1.13 @ 20°C
<b>Solubility(ies)</b>	Miscible with the following materials: Acetone. Alcohols. Miscible with water.
<b>Partition coefficient</b>	log Pow: -1.93
<b>Auto-ignition temperature</b>	400°C
<b>Viscosity</b>	21 cP @ 20°C

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Will not polymerise.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong acids. Strong alkalis. Strong oxidising agents.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon.
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### SECTION 11: Toxicological information

## QUALUBE UNIVERSAL ANTIFREEZE

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	Information given is applicable to the major ingredient.
<b><u>Acute toxicity - oral</u></b>	
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	512.82051282
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	3,500.0
<b>Species</b>	Mouse
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	2.5
<b>Species</b>	Rat
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not irritating.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Genome mutation: Negative. Not mutagenic
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Not available.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Fertility - >1000 mg/kg, Oral, Rat Not expected to be a reproductive toxicant.
<b>Reproductive toxicity - development</b>	Not available.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not available.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	NOAEL 200 mg/m <sup>3</sup> , Oral, Rat
<b><u>General information</u></b>	
<b>General information</b>	The product contains small amounts of organic solvents. Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	Splashes in the eyes may cause irritation and reversible local damage
<b>Acute and chronic health hazards</b>	Prolonged contact may cause dryness of the skin.



## QUALUBE UNIVERSAL ANTIFREEZE

**Route of entry** Inhalation Skin absorption Ingestion. Skin and/or eye contact

### SECTION 12: Ecological Information

**Ecotoxicity** The product is not expected to be hazardous to the environment. Information given is applicable to the major ingredient.

#### 12.1. Toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 72860 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >100 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: >6500 mg/l, Selenastrum capricornutum

**Acute toxicity - microorganisms** EC<sub>20</sub>, 30 minutes: >1995 mg/l, Activated sludge

**Chronic toxicity - fish early life stage** NOEC, 7 days: 15380 mg/l, Pimephales promelas (Fat-head Minnow)

#### 12.2. Persistence and degradability

**Persistence and degradability** The product is readily biodegradable.

**Stability (hydrolysis)** Hydrolysis is not expected/ probable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: -1.93

#### 12.4. Mobility in soil

**Mobility** This material has volatility and is water soluble hence the potential for mobility is high.

**Adsorption/desorption coefficient** Soil - Koc: 1 @ °C

**Henry's law constant** 0.1327 atm m<sup>3</sup>/mol @ °C

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects** None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Waste is suitable for incineration.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Waste class** Waste code: 07 01 04

### SECTION 14: Transport information

## QUALUBE UNIVERSAL ANTIFREEZE

### 14.1. UN number

No information required.

### 14.2. UN proper shipping name

No information required.

### 14.3. Transport hazard class(es)

No information required.

### 14.4. Packing group

No information required.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

No information required.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Ethylene glycol Pollution category: Cat Y Ship type: 3.

## SECTION 15: Regulatory information

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

#### **National regulations**

Health and Safety at Work etc. Act 1974 (as amended).  
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).  
Control of Substances Hazardous to Health Regulations 2002 (as amended).

#### **EU legislation**

Dangerous Substances Directive 67/548/EEC.  
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).  
Dangerous Preparations Directive 1999/45/EC.

#### **Water hazard classification**

WGK 1

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

## SECTION 16: Other information

#### **Issued by**

Technical manager

#### **Revision date**

02/09/2015

#### **SDS number**

20470

#### **Hazard statements in full**

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H360FD May damage fertility. May damage the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.

## QUALUBE UNIVERSAL ANTIFREEZE

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.