

Contact Sheet



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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY NAME

NAME OF MANUFACTURER/SUPPLIER:

Witham Oil & Paint Ltd
Outer Circle Road
Lincoln
LN2 4HL

BUSINESS TELEPHONE No: 01522 521192 / 537030
FAX No: 01522 560228
EMERGENCY No: 01522 537030
EMAIL: enquiries@withamgroup.co.uk
HOURS: Mon to Thursday 7:00 – 17:00, Friday 7:00 – 16:30

PRODUCT NAME: **QUALUBE QUALGUARD HYBRID COOLANT**

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Repr 1B	H360FD	May damage fertility. May damage the unborn child
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure
Acute Tox. 4	H302	Harmful if swallowed

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

T	Toxic
R60-61	May impair fertility. May cause harm to the unborn child
Xn	Harmful
R22	Harmful if swallowed

Information concerning particular hazards for human and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation

Hazard pictograms



GHS07



GHS08

(ancil/hybridcoolant131014)

(Issue 1 MAK)

(1 of 10)

Manufacturers of Quality Lubricants & Paints since 1921



REG. NO. FM 37897

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THE WITHAM GROUP

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T. 01502 563434 F. 01502 500010

Email. enquiries@withamgroup.co.uk www.withamgroup.co.uk



Signal word

Danger

Hazard-determining components of labelling

Ethanediol

Disodium tetraborate pentahydrate

Sodium nitrite

Hazard statements

H302 Harmful if swallowed

H360FD May damage fertility. May damage the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P264 Wash possible exposed body surfaces thoroughly after handling this product















P405 Store locked up

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable**vPvB:** Not applicable**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Chemical characterization: Substances****Identification numbers**

Not applicable

3.2 Chemical characterization: Mixtures**Description**

Dangerous Components:		
CAS: 107-21-1 EINECS: 203-473-3 Reg nr: 01-2119456816-28	ethanediol  Xn R22  STOT RE2, H373;  Acute Tox, 4, H302	50-100%
CAS: 12179-04-3 EINECS: 215-540-4 Reg nr: 01-2119490790-32	disodium tetraborate pentahydrate  T Repr Cat 1 R60-61;  Xi R36  Repr 1B, H360FD;  Eye Irrit 2, H319	0.1-<1%
CAS: 7632-00-0 EINECS: 231-555-9 Reg nr: 01-2119471836-27	sodium nitrate  T R25;  O R8;  N R50  Ox. Sol. 2, H272;  Acute Tox. 3, H301;  Eye Irrit. 2, H319 Aquatic acute 1, H400;  Eye Irrit. 2, H319	0.1-<1%
SVHC		
12179-04-03	disodium tetraborate pentahydrate	

Additional Information

For the wording of the listed risk phrases refer to section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information

Immediately remove any clothing soiled by the product

After inhalation

Supply fresh air or oxygen; call a doctor

In case of unconsciousness place patient stably in side position for transportation

After skin contact

Immediately wash with water and soap and rinse thoroughly

If skin irritation continues, consult a doctor

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor

After swallowing

Do not induce vomiting; call for medical help immediately

Rinse out mouth and then drink plenty of water

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents

Use fire extinguishing methods suitable to surrounding conditions

Water haze

Alcohol resistant foam

CO₂

Fire-extinguishing powder

BC Powder

Sand

5.2 Special hazards arising from the substance or mixture

No further relevant information available

5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device

Additional information

Cool endangered receptacles with water spray

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources
Wear protective clothing
Ensure adequate ventilation

6.2 Environmental precautions

Do not allow to enter sewers/surface or ground water
Inform respective authorities in case of seepage into water course or sewage system

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)
Dispose contaminated material as waste according to item 13

6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep receptacles tightly sealed
Ensure good ventilation/exhaustion at the workplace

Information about fire - and explosion protection

Keep ignition sources away - Do not smoke
Protect against electrostatic charges

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles

No special requirements

Information about storage in one common storage facility

Do not store together with acids
Store away from flammable substances
Store away from water

Further information about storage conditions

Store in cool, dry conditions in well-sealed receptacles
Store receptacle in fume cupboard

7.3 Specific end use(s)

No further relevant information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Addition information about design of technical facilities:

No further data: see item 7

8.1 Control Parameters

Ingredients with limit values that require monitoring at the workplace:

107-21-1 ethanediol

WEL	Short-term value: 104**mg/m ³ , 40**ppm Long-term value: 10* 52**mg/m ³ , 20**ppm Sk * particulate **vapour
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DNELS

107-21-1 ethanediol

Dermal	DNEL Long-term – Systemic (consumer)	53mg/kg bw/day (/)
	DNEL Long-term – Systemic (worker)	106 mg/kg bw/day (/)
Inhalative	DNEL Long-term – Local (consumer)	7mg/m ³ (/)
	DNEL Long-term – Local (worker)	35mg/m ³ (/)

12179-04-3 disodium tetraborate pentahydrate

Oral	DNEL Acute – Systemic (consumer)	1.15mg/kg bw/day (/)
	DNEL Long-term – Systemic (consumer)	1.15mg/kg bw/day (/)
Dermal	DNEL Long-term – Systemic (consumer)	231.8mg/kg bw/day (/)
	DNEL Long-term – Systemic (worker)	458.2mg/kg bw/day (/)
Inhalative	DNEL Acute – Local (consumer)	17.04 mg/m ³ (/)
	DNEL Acute – Local (worker)	17.04 mg/m ³ (/)
	DNEL Long-term – Local (consumer)	17.04 mg/m ³ (/)
	DNEL Long-term – Local (worker)	17.04 mg/m ³ (/)
	DNEL Long-term – Systemic (consumer)	4.9 mg/m ³ (/)
	DNEL Long-term – Systemic (worker)	9.8mg/m ³ (/)

7632-00-0 sodium nitrite

Inhalative	DNEL Acute – Systemic (worker)	2mg/m ³ (/)
	DNEL Long-term – Systemic (worker)	2mg/m ³ (/)

PNECs

107-21-1 ethanediol

PNEC Fresh water	10mg/l (/)
PNEC Marine water	1 mg/l (/)
PNEC Soil	1.53mg/kg (/)

12179-04-3 disodium tetraborate pentahydrate

PNEC Fresh water	2.02mg/l (/)
PNEC Intermittent releases	13.7 mg/l (/)
PNEC Marine water	2.02 mg/l (/)
PNEC STP	10mg/l (/)
PNEC Soil	5.4 mg/kg (/)

7632-00-0 sodium nitrite

PNEC Fresh water	0.0054 mg/l (/)
PNEC Fresh water sediment	0.0195 mg/kg (/)
PNEC Intermittent releases	0.0054 mg/l (/)
PNEC Marine sediment	0.0223 mg/kg (/)
PNEC Marine water	0.00616 mg/l (/)
PNEC STP	21mg/l (/)
PNEC Soil	0.000733 mg/kg (/)

Additional Information

The lists valid during the making were used as basis

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals

Keep away from foodstuffs, beverages and feed

Wash hands before breaks and at the end of work

Respiratory protection

Not required

Protection of hands



Protective gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/the preparation/the chemical mixture

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

Eye Protection



Tightly sealed goggles

Body Protection

Use protective suit

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Blue / Blue in UK
Odour:	Odourless
Odour Threshold:	Not determined
pH value:	Not determined
Change in condition	
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	197°C
Flash point:	111°C
Auto ignition temperature:	398°C
Decomposition temperature:	Not determined
Self-igniting:	Product is not self-igniting

Danger of explosion:	Product does not present an explosion hazard
Exposure limits	
Lower:	3.2 vol %
Upper:	53 vol %
Vapour pressure:	Not determined
Density at 20°C:	1.11g/cm ³
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in/Miscibility with Water at 20°C:	1 g/l
Partition coefficient (n-octanol/water):	Not determined
Viscosity	
Dynamic:	Not determined
Kinematic:	Not determined
Solvent content	
Organic solvents:	0.0%

9.2 Other information

No further relevant information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition/conditions to be avoided

No decomposition if used according to specifications

10.3 Possibility of hazardous reaction

No dangerous reactions known

10.4 Conditions to avoid

No further relevant information available

10.5 Incompatible materials

Acids

Strong oxidizing agents

10.6 Hazardous decomposition products

No dangerous decomposition products known

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

107-21-1 ethanediol

Oral	LD50	>300-<2000 mg/kg (rat)
Dermal	LD50	>5000mg/kg (rabbit)

12179-04-3 disodium tetraborate pentahydrate		
Oral	LD50	3200-3400mg/kg (rat)
Dermal	LD50	>2000mg/kg (rabbit)
Inhalative	LC50	>2.0mg/l (rat)
7632-00-0 sodium nitrite		
Oral	LD50	180 mg/kg (rat)

Primary irritant effect:

on the skin No irritant effect

on the eye No irritating effect

Sensitization No sensitizing effects known

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Repr 1B

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity

107-21-1 ethanediol

EC 50 (48 u)	> 100mg/l (daphnia magna)
EC 50 (96 u)	6500-13000 mg/l (pseudokirchneriella subcapitata)
LC 50 (96 u)	72860 mg/l (pimephales promelas)

12179-04-3 disodium tetraborate pentahydrate

EC 50 (24 u)	242mg/l (daphnia magna)
LC 50	88mg/l (oncorhynchus mykiss) (24 days) 65mg/l (carassius auratus) (7 days)

7632-00-0 sodium nitrite

EC 50 (48 u)	421 mg/l (Protozoa) 15.4 mg/l (daphnia magna) (OECD 202)
LC 50 (48 u)	360 mg/l (Leuciscus idus)
LC 50 (96 u)	0.54-26.3 mg/l (Oncorhynchus mykiss)
NOEC	9.86 mg/l (daphnia) 6.16 mg/l (Ictalarus punctatus)

12.2 Persistence and degradability

No further relevant information available

12.3 Bioaccumulative potential

No further relevant information available

12.4 Mobility in soil

No further relevant information available

Additional ecological information

General Notes

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable**vPvB:** Not applicable**12.6 Other adverse effects**

No further relevant information available

13. DISPOSAL RECOMMENDATIONS

13.1 Waste treatment methods**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system

Uncleaned packaging recommendation

Disposal must be made according to official regulations

14. TRANSPORT INFORMATION

14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport Hazard Class(es) ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards Marine Pollutant	No
14.6 Special precautions for user	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
UN "Model Regulation"	-

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**Labelling according to Regulation (EC) No 1272/2008**

GHS label elements

National regulations**Technical instructions (air)**

Class	Share in %
NK	95.0

Water hazard class

Water hazard class 1 (Self assessment); slightly hazardous for water

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out

16. OTHER INFORMATION

The information provided in these documents is based on our present state of knowledge of the product and is given in good faith and to the best of our experience. However, it should not be construed as a technical specification or as guaranteeing specific properties. In no event we will be responsible for damages or effects of any nature whatsoever, either express or implied, resulting from the use of this information. It is the own responsibility of the consignee and the user of the product to comply with all prevailing and applicable laws, regulations and directives. They should also make their own determination as to the suitability of the product for a particular use of application

Relevant phrases

H272	May intensify fire; oxidizer
H301	Toxic if swallowed
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
H400	Very toxic to aquatic life
R22	Harmful if swallowed
R25	Toxic if swallowed
R36	Irritating to eyes
R50	Very toxic to aquatic organisms
R60	May impair fertility
R61	May cause harm to the unborn child
R8	Contact with combustible material may cause fire

Abbreviations and acronyms

ICAO: International Civil Aviation Organisation
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Ox Sol 2: Oxidising Solids, Hazard Category 2
Acute Tox 3: Acute toxicity, Hazard Category 3
Acute Tox 4: Acute toxicity, Hazard Category 4
Eye Irrit 2: Serious eye damage/eye irritation, Hazard Category 2
Repr 1B: Reproductive toxicity, Hazard Category 1B
STOT RE 2: Specific target organ toxicity – Repeated exposure, Hazard Category 2