

## **Safety Data Sheet**

according to UK REACH Regulation

## Alphacool ES Liquid GL50 (-40°C) 1000ml

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

### 1.1. Product identifier

Alphacool ES Liquid GL50 (-40°C) 1000ml

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

### Use of the substance/mixture

Heat transferring agent

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

Company name: Alphacool International GmbH

> Tochtergesellschaft Marienberger Str. 1

Street: Place: D-38122 Braunschweig

Telephone: 0531 28874-0 Telefax: 0531 28874-22

E-mail: info@alphacool.com

Contact person: Ronald Willms Telephone: 05207 95846-205

E-mail: einkauf@aquatuning.de Internet: www.alphacool.com +49 (0) 6131 19240 1.4. Emergency telephone

number:

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Acute Tox. 4: H302

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

## **GB CLP Regulation**

### Hazard components for labelling

ethanediol; ethylene glycol

2,2'-oxybisethanol; diethylene glycol

Signal word: Warning

Pictograms:



### **Hazard statements**

H302 Harmful if swallowed.

# **Precautionary statements**

Wash hands thoroughly after handling. P264

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

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container to .... Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning



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#### Pictograms:



#### 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation	1)			
107-21-1	ethanediol; ethylene glycol				
	203-473-3	603-027-00-1			
	Acute Tox. 4; H302				
111-46-6	2,2'-oxybisethanol; diethylene glycol				
	203-872-2	603-140-00-6			
	Acute Tox. 4; H302				
12179-04-3	disodium tetraborate pentahydrate				
	215-540-4	005-011-00-4			
	Repr. 1B; H360FD				

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	pecific Conc. Limits, M-factors and ATE	
107-21-1	203-473-3	ethanediol; ethylene glycol	80-95 %
	dermal: LD50 = 10600 mg/kg; oral: ATE = 500 mg/kg		
111-46-6	203-872-2	2,2'-oxybisethanol; diethylene glycol	0-15 %
	dermal: LD50 = 11890 mg/kg; oral: ATE = 500 mg/kg		

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

### After inhalation

Provide fresh air. Call a doctor if you feel unwell.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. non-irritant.

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink 1 glass of of water. Medical treatment necessary. IF SWALLOWED:



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Immediately call a doctor.

### 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

Treat symptomatically. No further relevant information available.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Foam, Extinguishing powder, Sand

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

Non-flammable. In case of fire may be liberated: Gases/vapours, toxic

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Use suitable breathing apparatus.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

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

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Use suitable breathing apparatus. Provide adequate ventilation. Special danger of slipping by leaking/spilling product. Use of protective clothing

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Dilute with plenty of water.

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

### For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation.

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations. Avoid: generation/formation of aerosols

### Advice on protection against fire and explosion

Use suitable breathing apparatus.

## Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat,



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drink, smoke, sniff. Keep away from: Food and feedingstuffs Wash hands before breaks and after work. Separate storage of work clothes.

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

### Requirements for storage rooms and vessels

Keep container tightly closed. No special measures are necessary.

### Hints on joint storage

No special measures are necessary.

### Further information on storage conditions

none

### 7.3. Specific end use(s)

Heat transferring agent

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

### 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
111-46-6	2,2'-Oxydiethanol	23	101		TWA (8 h)	WEL
11130-12-4	Disodium tetraborate, pentahydrate	-	1		TWA (8 h)	WEL
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL

#### 8.2. Exposure controls

### Individual protection measures, such as personal protective equipment

### Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Use of protective clothing.

# Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## **SECTION 9: Physical and chemical properties**

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

Physical state: Liquid Colour: blue

Odour: characteristic
Odour threshold: not determined

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

106 °C

boiling range:

Flammability: not applicable Lower explosion limits: not determined



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Upper explosion limits: not determined Flash point: not applicable Auto-ignition temperature: not determined Decomposition temperature: not determined pH-Value: not determined Viscosity / kinematic: not determined Water solubility: easily soluble

Solubility in other solvents

not determined

Dissolution rate: not determined Partition coefficient n-octanol/water: not determined Dispersion stability: not determined Vapour pressure: not determined Vapour pressure: not determined Density (at 20 °C): 1,095 g/cm<sup>3</sup> Relative density: not determined Bulk density: not determined Relative vapour density: not determined Particle characteristics: not determined

### 9.2. Other information

# Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

### Other safety characteristics

Evaporation rate: not determined Solvent separation test: not determined Solvent content: not determined Solid content: not determined Sublimation point: not determined Softening point: not determined Pour point: not determined not determined Viscosity / dynamic: not determined Flow time: not determined

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No further relevant information available.

#### 10.2. Chemical stability

Thermal decomposition Thermal decomposition/ Conditions to avoid: No hazardous reaction when handled and stored according to provisions.

# 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

No further relevant information available.

### 10.5. Incompatible materials

No further relevant information available.



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## 10.6. Hazardous decomposition products

Carbon monoxide aldehydes Gases/vapours, toxic Carbon dioxide

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **Acute toxicity**

Harmful if swallowed.

### **ATEmix calculated**

ATE (oral) 746,3 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
107-21-1	ethanediol; ethylene glycol					
	oral	ATE mg/kg	500			
	dermal	LD50 mg/kg	10600	Rabbit	GESTIS	
111-46-6	2,2'-oxybisethanol; diethylene glycol					
	oral	ATE mg/kg	500			
	dermal		11890	Rabbit		

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

### Carcinogenic/mutagenic/toxic effects for reproduction

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

May cause damage to organs through prolonged or repeated exposure.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### **Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Aquatic toxicity: No further relevant information available.



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
111-46-6	2,2'-oxybisethanol; diethylene glycol					
	Acute fish toxicity	LC50 > 32000 mg/l	96 h	Gambusia affinis		

#### 12.2. Persistence and degradability

No further relevant information available.

### 12.3. Bioaccumulative potential

No further relevant information available.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	ethanediol; ethylene glycol	-1,36
111-46-6	2,2'-oxybisethanol; diethylene glycol	-1,98 (25°C)

### 12.4. Mobility in soil

No further relevant information available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. not applicable

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No further relevant information available.

#### **Further information**

Avoid release to the environment. Water hazard class 3: strongly hazardous to water.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

Dispose of waste according to applicable legislation.

### **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Danger releasing substance: not applicable

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

### **SECTION 15: Regulatory information**



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

### **EU** regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

disodium tetraborate pentahydrate

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30, Entry 75

Directive 2004/42/EC on VOC in 67 % (733,65 g/l)

paints and varnishes:

Information according to Directive

2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

### Abbreviations and acronyms

Acute Tox: Acute toxicity
Repr: Reproductive toxicity

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

**UN: United Nations** 

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety

assessment, chapter R.20 (Table of terms and abbreviations).



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### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method

### Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.

H360FD May damage fertility. May damage the unborn child.

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)