

Safety Data Sheet

SMART AND EFFICIENT

according to UK REACH Regulation

Alphacool AIO Liquid 1

Revision date: 15.04.2024

Product code: 168

Page 1 of 8

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

1.1. Product identifier

Alphacool AIO Liquid 1

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

no. Detaile of the supplier of the		
Company name:	Alphacool International GmbH	
	Tochtergesellschaft	
Street:	Marienberger Str. 1	
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	
1.4. Emergency telephone	+49 (0) 6131 19240	

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

Signal word:

Pictograms:



Warning

Hazard statements

H302

Harmful if swallowed.

Precautionary state	ments
P264	Wash hands thoroughly after handling.
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 Safety, health and environmental regulations/legislation specific for the substance or mixture.
Labolling of package	es where the contents do not exceed 125 ml
Labelling of package	

La

Signal word: Warning



Safety Data Sheet

SMART AND EFFICIENT

according to UK REACH Regulation

Alphacool AlO Liquid 1
Alphacool Alo Liquiu I

Revision date: 15.04.2024

Product code: 168

Page 2 of 8

Pictograms:



2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
107-21-1	ethanediol; ethylene gly	ethanediol; ethylene glycol		30 - < 35 %
	203-473-3	603-027-00-1		
	Acute Tox. 4; H302			

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. L	imits, M-factors and ATE	
107-21-1	7-21-1 203-473-3 ethanediol; ethylene glycol		30 - < 35 %
	dermal: LD50 =	: 10600 mg/kg; oral: ATE = 500 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

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

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

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

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters



Safety Data Sheet

SMART AND EFFICIENT

according to UK REACH Regulation

Alphacool AlO Liquid 1

Revision date: 15.04.2024

Product code: 168

Page 3 of 8

In case of fire: Wear self-contained 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.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

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.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

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, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

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
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL



according to UK REACH Regulation

Alphacool AIO Liquid 1

Revision date: 15.04.2024

Product code: 168

Page 4 of 8

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:	colourless	
Odour:	neutral	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		not determined
boiling range:		
Flammability:		not applicable
		not applicable
Lower explosion limits:		3,2 vol. %
Upper explosion limits:		43 vol. %
Flash point:		not determined
Auto-ignition temperature:		410 °C
Decomposition temperature:		not determined
pH-Value (at 20 °C):		8
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: (at 20 °C)		0,053 hPa
Vapour pressure:		1,1 hPa
(at 50 °C) Density:		1,03 g/cm ³
Relative density:		not determined
Bulk density:		not determined
-		
Relative vanour density:		not determined
Relative vapour density: Particle characteristics:		not determined not determined

9.2. Other information

Information with regard to physical hazard classes



Safety Data Sheet

according to UK REACH Regulation

	Alphacool AIO Liquid 1	
Revision date: 15.04.2024	Product code: 168	Page 5 of 8
Explosive properties The product is not: Explosive. Self-ignition temperature Solid: Gas: Oxidizing properties The product is not: oxidising.	not determined not determined	
Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: Viscosity / dynamic:	not determined not determined not determined not determined not determined not determined not determined not determined	

not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Flow time:

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

ATEmix calculated

ATE (oral) 1667 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Acute toxicity

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	

11.2. Information on other hazards

Further information

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



according to UK REACH Regulation

Alphacool AIO Liquid 1

Revision date: 15.04.2024

Product code: 168

Page 6 of 8

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	ethanediol; ethylene glycol	-1,36

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

The product has not been tested. 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 information available.

Further information

Avoid release to the environment.

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.

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.

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

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

EU regulatory information

Restrictions on use (REACH, annex XVII):



according to UK REACH Regulation

SMART AND EFFICIENT	according to UK REACH Regulation	
	Alphacool AIO Liquid 1	
Revision date: 15.04.2024	Product code: 168	Page 7 of
Directive 2004/42/EC on VOC in	30 % (309 g/l)	
paints and varnishes:	50 // (503 g/l)	
Information according to Directive	Not subject to 2012/18/EU (SEVESO III)	
2012/18/EU (SEVESO III):		
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve	nile
	work protection guideline' (94/33/EC).	
Water hazard class (D):	1 - slightly hazardous to water	
5.2. Chemical safety assessment		
Chemical safety assessments for s	substances in this mixture were not carried out.	
-		
SECTION 16: Other information		
Changes		
	from the previous version in section(s): 9.	
-		
Abbreviations and acronyms		
Acute Tox: Acute toxicity		
CLP: Classification, labelling and P	'ackaging	
REACH: Registration, Evaluation a	nd Authorization of Chemicals	
GHS: Globally Harmonised System	n of Classification, Labelling and Packaging of Chemicals	
UN: United Nations		
CAS: Chemical Abstracts Service		
DNEL: Derived No Effect Level		
DMEL: Derived Minimal Effect Leve	el	
PNEC: Predicted No Effect Concer	ntration	
ATE: Acute toxicity estimate		
-		
LC50: Lethal concentration, 50%		
LD50: Lethal dose, 50%		
LL50: Lethal loading, 50%		
EL50: Effect loading, 50%		
EC50: Effective Concentration 50%	, 0	
ErC50: Effective Concentration 50		
NOEC: No Observed Effect Conce	-	
	Initation	
BCF: Bio-concentration factor		
PBT: persistent, bioaccumulative, t		
vPvB: very persistent, very bioaccu		
ADR: Accord européen sur le trans	sport des marchandises dangereuses par Route	
(European Agreement concerning	the International Carriage of Dangerous Goods by Road)	
	ternational carriage of dangerous goods by rail	
	n for the Prevention of Marine Pollution from Ships	
IBC: Intermediate Bulk Container		
VOC: Volatile Organic Compounds		
SVHC: Substance of Very High Co		
	ee: ECHA Guidance on information requirements and chemical safety	
assessment, chapter R.20 (Table c	of terms and abbreviations).	
Classification for mixtures and used ev	aluation method according to GB CLP Regulation	
	sification procedure]
Classification	silication procedure	

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method

Relevant H and EUH statements (number and full text) H302 Harmful if swallowed.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of



Salety Data Sheet

according to UK REACH Regulation

Alphacool AlO Liquid 1

Revision date: 15.04.2024

Product code: 168

Page 8 of 8

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.)