

SMART AND EFFICIENT

according to UK REACH Regulation

Alphacool Subzero Thermal grease

Revision date: 12.04.2022

Product code: 1021760

Page 1 of 8

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

1.1. Product identifier

Alphacool Subzero Thermal grease

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	
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

Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word:

Warning

Pictograms:



Hazard statements

H319	
H410	

	Causes serious eye irritation.
	Very toxic to aquatic life with long lasting effects.
rv statomont	·e

Precautionary statements

i roodationary otatomor	
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/container to
Labelling of packages v	where the contents do not exceed 125 ml
Signal word:	Warning



SMART AND EFFICIENT

according to UK REACH Regulation

Revision date: 12.04.2022

Alphacool Subzero Thermal grease Product code: 1021760

Page 2 of 8

Pictograms:



2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			
	EC No	Index No	REACH No	
	Classification (GB CLP Re	gulation)		
1314-13-2	zinc oxide			30-40%
	215-222-5	030-013-00-7		
	Aquatic Acute 1, Aquatic C	hronic 1; H400 H410		
1344-28-1	Aluminium Oxide			30-40%
	215-691-6			
		•	-	
7429-90-5	aluminium powder (stabilis	20-25%		
	231-072-3	013-002-00-1		
	Flam. Sol. 1, Water-react.			
9006-65-9	Dimeticone			8-15%
	618-433-4			
	Eye Irrit. 2; H319			
10043-11-5	Boron Nitride	5-10%		
	233-136-6			
	Eye Irrit. 2, Aquatic Chroni			

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. Limits, M-factors and ATE		
1314-13-2	215-222-5	zinc oxide	30-40% %
	oral: LD50 = > 5000 mg/kg		
1344-28-1	215-691-6	Aluminium Oxide	30-40% %
	oral: LD50 = >15900 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

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.



SMART AND EFFICIENT

according to UK REACH Regulation

Alphacool Subzero Thermal grease

Revision date: 12.04.2022

Product code: 1021760

Page 3 of 8

After ingestion

Rinse mouth immediately and drink 1 glass of of water.

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

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

Take up mechanically. 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

No special measures are necessary.

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.



SMART AND EFFICIENT

according to UK REACH Regulation

Alphacool Subzero Thermal grease

Revision date: 12.04.2022

Product code: 1021760

Page 4 of 8

Hints on joint storage

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7429-90-5	Aluminium metal, respirable dust	-	4		TWA (8 h)	WEL
1344-28-1	Aluminium oxides, inhalable dust	-	10		TWA (8 h)	WEL

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

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: Colour: Odour:	Paste light grey characteristic	
Changes in the physical state Melting point/freezing point: Boiling point or initial boiling point and boiling range:		not determined not determined
Flash point:		not applicable
Flammability Solid/liquid: Gas:		not determined not applicable
Explosive properties The product is not: Explosive.		
Lower explosion limits: Upper explosion limits:		not determined not determined



SMART AND EFFICIENT

according to UK REACH Regulation

Alphacool Subzero Thermal grease				
Revision date: 12.04.2022	Product code: 1021760	Page 5 of 8		
Auto-ignition temperature:	not determined			
Decomposition temperature:	not determined			
pH-Value:	6,1			
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.			
Solubility in other solvents not determined				
Partition coefficient n-octanol/water:	not determined			
Vapour pressure:	not determined			
Density:	not determined			
Relative vapour density:	not determined			
9.2. Other information				
Information with regard to physical haz Oxidizing properties The product is not: oxidising.	ard classes			
Other safety characteristics				
Solid content:	not determined			
Evaporation rate:	not determined			
Further Information				

10.1. Reactivity

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



SMART AND EFFICIENT

according to UK REACH Regulation

Alphacool Subzero Thermal grease

Revision date: 12.04.2022

Product code: 1021760

Page 6 of 8

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1314-13-2	zinc oxide				
	oral	LD50 > 5000 mg/kg	Rat	IUCLID	
1344-28-1	Aluminium Oxide				
	oral	LD50 >15900 mg/kg	Rat		

Further information

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

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

BCF

CAS No	Chemical name	BCF	Species	Source
1344-28-1	Aluminium Oxide	100-11000		

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

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)



SMART AND EFFICIENT

according to UK REACH Regulation

Alphacool Subzero Thermal grease		
Revision date: 12.04.2022	Product code: 1021760	Page 7 of 8
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:14.6. Special precautions for userNo dangerous good in sense of this tra14.7. Maritime transport in bulk according to No dangerous good in sense of this tra	IMO instruments	
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): Entry 40, Entry 75 Information according to 2012/18/EU (SEVESO III):	E1 Hazardous to the Aquatic Environment	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juven work protection guideline' (94/33/EC).	ile
Water hazard class (D):	3 - highly 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

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 SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety



SMART AND EFFICIENT

according to UK REACH Regulation

Alphacool Subzero Thermal grease

Revision date: 12.04.2022

Product code: 1021760

Page 8 of 8

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

|--|

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H228	Flammable solid.
H261	In contact with water releases flammable gases.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)