

**Safety Data Sheet**

according to UK REACH Regulation

**Alphacool Apex Wärmeleitpad Soft 18W/mk**

Revision date: 22.02.2023

Product code: 163

Page 1 of 7

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

**1.1. Product identifier**

Alphacool Apex Wärmeleitpad Soft 18W/mk

**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 number:** +49 (0) 6131 19240

**SECTION 2: Hazards identification**

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

**GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

**2.2. Label elements**

**Labelling of packages where the contents do not exceed 125 ml**

Signal word: Warning

**2.3. Other hazards**

No information available.

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

**3.2. Mixtures**

**Safety Data Sheet**

according to UK REACH Regulation

**Alphacool Apex Wärmeleitpad Soft 18W/mk**

Revision date: 22.02.2023

Product code: 163

Page 2 of 7

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1344-28-1	Aluminium Oxide			33-57%
	215-691-6			
24304-00-5	Aluminium Nitride			22-48%
	STOT RE 2, Aquatic Chronic 1; H373 H410			
10043-11-5	Boron Nitride			3-11%
	233-136-6			
	Eye Irrit. 2, Aquatic Chronic 4; H319 H413			
68083-18-1	Silikon (Polysiloxanes, di-Me, Me vinyl, vinyl group-terminated)			2-5%
	614-273-4			

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		
1344-28-1	215-691-6	Aluminium Oxide	33-57% %
	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. If skin irritation occurs: Get medical help.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists: Get medical help.

**After ingestion**

Rinse mouth immediately and drink 1 glass of of water. Get medical help if you feel unwell.

**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.

**Safety Data Sheet**

according to UK REACH Regulation

**Alphacool Apex Wärmeleitpad Soft 18W/mk**

Revision date: 22.02.2023

Product code: 163

Page 3 of 7

**Additional information**

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**

Avoid dust formation. Do not breathe dust. Avoid contact with eyes and skin.

**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**

Take off contaminated clothing. Wash hands before breaks and after work. 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/m <sup>3</sup>	fibres/ml	Category	Origin
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**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four

**Safety Data Sheet**

according to UK REACH Regulation

**Alphacool Apex Wärmeleitpad Soft 18W/mk**

Revision date: 22.02.2023

Product code: 163

Page 4 of 7

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: solid  
 Colour: grey  
 Odour: odourless

**Changes in the physical state**

Melting point/freezing point: not determined  
 Boiling point or initial boiling point and boiling range: not determined  
 Flash point: not applicable

**Flammability**

Solid/liquid: not determined  
 Gas: not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits: not determined  
 Upper explosion limits: not determined  
 Auto-ignition temperature: not determined  
 Decomposition temperature: not determined  
 pH-Value: not determined

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: 3,5 g/cm<sup>3</sup>  
 Relative vapour density: not determined

**9.2. Other information**

**Information with regard to physical hazard classes**

Oxidizing properties  
 The product is not: oxidising.

**Other safety characteristics**

Solid content: not determined  
 Evaporation rate: not determined

**Further Information**

**Safety Data Sheet**

according to UK REACH Regulation

**Alphacool Apex Wärmeleitpad Soft 18W/mk**

Revision date: 22.02.2023

Product code: 163

Page 5 of 7

**SECTION 10: Stability and reactivity**

**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**

**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1344-28-1	Aluminium Oxide				
	oral	LD50 >15900 mg/kg	Rat		

**Irritation and corrosivity**

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

**Sensitising effects**

not sensitising.

**Carcinogenic/mutagenic/toxic effects for reproduction**

carbon black dust/mist May cause cancer by inhalation.

**Further information**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**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.

**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.

**Safety Data Sheet**

according to UK REACH Regulation

**Alphacool Apex Wärmeleitpad Soft 18W/mk**

Revision date: 22.02.2023

Product code: 163

Page 6 of 7

**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)**

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

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

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**

- 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

**Safety Data Sheet**

according to UK REACH Regulation

**Alphacool Apex Wärmeleitpad Soft 18W/mk**

Revision date: 22.02.2023

Product code: 163

Page 7 of 7

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

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

H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.)*