

Alphacool Apex 2 Thermal Paste

Revision date:

Product code: 189

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1. Identification

Product identifier

Alphacool Apex 2 Thermal Paste

Product group: Zulieferprodukt

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Heat transferring agent

Details of the supplier of the safety data sheet

Company name: Alphacool International GmbH

Tochtergesellschaft

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Responsible Department: Forschung & Entwicklung

Emergency phone number: +49 (0) 6131 19240

2. Hazard(s) identification

Classification of the chemical

Regulation (EC) No 1272/2008

Eye Irrit. 2; H319

Aquatic Chronic 2; H411

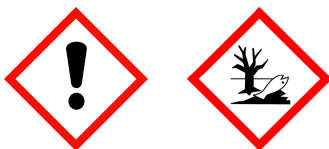
Full text of hazard statements: see SECTION 16.

Label elements

Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



Hazard statements

H319 Causes serious eye irritation

H411 Toxic to aquatic life with long lasting effects

Precautionary statements

P264 Wash ... thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face 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 where the contents do not exceed 125 ml

Signal word: Warning

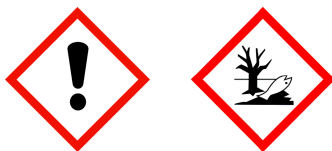
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Pictograms:



3. Composition/information on ingredients

Mixtures

Relevant ingredients

CAS No	Components			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
1314-13-2	zinc oxide			20 - < 25 %
	215-222-5	030-013-00-7		
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
63148-62-9	Polydimethylsiloxane			15 - < 20 %
	613-156-5			
	Eye Irrit. 2, Aquatic Chronic 2; H319 H411			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
	Specific Conc. Limits, M-factors and ATE		
1314-13-2	215-222-5	zinc oxide	20 - < 25 %
	oral: LD50 = > 5000 mg/kg		

4. First-aid measures

Description of first aid measures

After contact with eyes

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

Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Treat symptomatically.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Dry extinguishing powder, Foam, Water spray jet
Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment and precautions for fire-fighters

Use water spray jet to protect personnel and to cool endangered containers. Wear a self-contained breathing apparatus and chemical protective clothing.

6. Accidental release measures

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Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

For cleaning up

Use personal protection equipment. Collect in closed and suitable containers for disposal. Water (with cleaning agent)

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage incompatibility: oxid. Material

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m³		Category	Origin
1344-28-1	alpha-Alumina Respirable fraction	-	5		TWA (8 h)	PEL
1314-13-2	Zinc oxide (Dust)	-	5		TWA (8 h)	REL
		-	C 15		Ceiling	REL
1314-13-2	Zinc oxide Respirable fraction	-	5		TWA (8 h)	PEL

Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Dust protection eye glasses

Skin protection

Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Paste
Color:	gray
Odor:	odorless
Flash point:	150 °C
Density:	2,7 g/cm³

10. Stability and reactivity

Reactivity

Stable under recommended storage and handling conditions.

Conditions to avoid

No hazardous reaction when handled and stored according to provisions.

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Incompatible materials

Oxidizing agent, strong

Hazardous decomposition products

Carbon Oxides, Silicon Dioxide, Metal Oxides, Formaldehyde

11. Toxicological information

Information on toxicological effects

Acute toxicity

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

ATEmix calculated

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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
1314-13-2	zinc oxide				
	oral	LD50 > 5000 mg/kg	Rat	IUCLID	

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

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

Aspiration hazard

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

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects

Results of PBT and vPvB assessment

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

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.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Ask manufacturer for recycling information.

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Contaminated packaging

Local disposal regulations

14. Transport information

Segregation group:

7 - heavy metals and their salts (including their organometallic compounds)

15. Regulatory information

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

National regulatory information

16. Other information

Abbreviations and acronyms

Eye Irrit: Eye irritation

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H statements (full text)

H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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