

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Date: 05-Jan-2026

Section 1: Identification of the Substance/Mixture and of the Company

1.1 Product identifier

Commercial Name: ARCTIC TP-4 Thermal Pad

Part No. / UPC / EAN:

Size	100x100mm 0.5mm	100x100mm 1.0mm	100x100mm 0.5mm
Part No.	ACTPD00062A	ACTPD00063A	ACTPD00064A
UPC	84003340391-7	84003340392-4	84003340393-1
EAN	489526500124-6	489526500125-3	489526500126-0

Size	120x20mm 0.5mm 4 pcs	120x20mm 1.0mm 4 pcs	120x20mm 1.5mm 4 pcs
Part No.	ACTPD00065A	ACTPD00066A	ACTPD00067A
UPC	84003340394-8	84003340395-5	84003340396-2
EAN	489526500127-7	489526500128-4	489526500129-1

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

Use of the substance or mixture: Thermal interface material for Electrical industry and electronics

Uses advised against: None known

1.3 Details of the supplier of the safety data sheet

Company:

ARCTIC (HK) Ltd.

Unit 3001-07, The Octagon

No.6 Sha Tsui Road

Tsuen Wan,

New Territories

Hong Kong

Tel. No.: +852 3643 0044

1.4 Emergency telephone number

For emergencies, refer to this link for the contact details: <https://support.arctic.de/emergency>

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008
The product is not classified according to the CLP regulation.
- Information concerning particular hazards for human and environment:

The product has not to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.

- **Classification system:**

The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.

2.2 Label elements

- Labelling according to Regulation (EC) No. 1272/2008 Not applicable
- Hazard pictograms Not applicable
- Signal word Not applicable
- Hazard-determining components of labelling: Not applicable
- Hazard statements Not applicable
- Precautionary statements Not applicable

2.3 Other hazards

- Results of PBT and vPvB assessment
- *PBT*: Not applicable
- *vPvB*: Not applicable
- Determination of endocrine-disrupting properties Not applicable

Section 3: Composition/Information on Ingredients

3.1 Mixtures hazards

- **Description:**

Mixture of the substances listed below with nonhazardous additions. For the wording of the listed hazard statements refer to section 16.

Name	CAS-No.	EINECS/ ELINCS No	Conc. (% w/w)
Aluminum	7429-90-5	231-072-3	79.0%
Fiberglass	1344-28-1	266-046-0	4.0%
Silicone	68037-87-6	-----	17.0%

Section 4: First Aid Measures

4.1 Description of first aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally, the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult 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:

No further relevant information available

Section 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Not required.

6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

For the general occupational hygienic measures refer to Section 8.

- **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** None.

7.3 Specific end use(s):

No further relevant information

Section 8: ; Exposure Controls / Personal Protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 7429-90-5 Aluminum (79.0%)	
AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolengängig** einatembar; AGS, DFG, Y
VLEP (France)	Long-term value: 5* 10** mg/m ³ *pulvérulent **métal
OEL (Ireland)	Long-term value: 1* mg/m ³ *metal, respirable fraction

CAS: 1344-28-1 Aluminum oxide(13.9%)	
AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolengängig** einatembar; AGS, DFG, Y
VLEP (France)	Long-term value: 10 mg/m ³ *pulvérulent **métal
OEL (Ireland)	Long-term value: 10*4** mg/m ³ *total inhalable** respirable dust

- Regulatory information

AGW (Germany): TRGS 900

VLEP (France): ED 1487 05.2021

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

- DNELs: Not available

- PNECs: Not available

Ingredients with biological limit values:	
CAS: 7429-90-5 Aluminum	
BGW (Germany)	50 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten Parameter: Aluminium

- Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Engineering Controls

Showers. Eyewash stations. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand Protection
 Skin and body protection
 Respiratory protection

Wear protective gloves.
 Suitable protective clothing.
 In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls

Prevent entry into waterways, sewers, basements or confined areas.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

- **Physical state:** Paste
- **Colour:** Grey
- **Odour:** Not available
- **Odour threshold:** Not available
- **Melting point/Freezing point:** Not available
- **Boiling point or initial boiling point and boiling range:** Not available
- **Flammability:** Not available
- **Lower and upper explosion limit**
 - *Lower:* Not available
 - *Upper:* Not available
- **Flash point:** Not available
- **Auto-ignition temperature:** Not available
- **Decomposition temperature:** Not available
- **pH:** Not available
- **Viscosity**
 - *Kinematic viscosity:* Not available
 - *Dynamic viscosity:* Not available
- **Solubility**
 - *Water:* Not available
 - *Partition coefficient n-octanol/water (log value):* Not available
 - *Vapour pressure:* Not available
- **Density and/or relative density**
 - *Density:* Not available
 - *Relative density:* Not available
 - *Relative vapour density:* Not available
 - *Particle characteristics:* Not available

9.2 Other information

- No information available

Section 10: Stability and Reactivity

10.1 Reactivity:	No information available
10.2 Chemical stability:	Stable under normal conditions
10.3 Possibility of hazardous reactions:	None under normal processing
10.4 Conditions to avoid:	No information available
10.5 Incompatible materials:	None known based on information supplied
10.6 Hazardous decomposition products:	None under normal use conditions

Section 11: Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity
- LD/LC50 values relevant for classification: Not available
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Based on available data, the classification criteria are not met
- Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
- 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.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- 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.

Section 12: Ecological Information

12.1 Toxicity

- Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment:

- PBT: Not applicable
- vPvB: Not applicable

12.6 Other adverse effects:

No further relevant information available.

Section 13: Disposal Considerations

13.1 Other adverse effects:

- **Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

Section 14: Transport Information

- 14.1 UN number or ID number - ADR/RID/ADN, IMDG, IATA	Not applicable
- 14.2 UN proper shipping name - ADR/RID/ADN, IMDG, IATA	Not applicable
- 14.3 Transport hazard class(es) - ADR/RID/ADN, IMDG, IATA - Class Not applicable - Label	Not applicable -
- 14.4 Packing group - ADR/RID/ADN, IMDG, IATA	Not applicable
- 14.5 Environmental hazards: - Marine pollutant:	No
- 14.6 Special precautions for user: - Hazard identification number (Kemler code):	Not applicable -
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
- 14.8 Transport/Additional information:	Not applicable
- UN "Model Regulation":	Not applicable

Section 15: Regulatory Information

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

- | | |
|---|------------------------------------|
| - Directive 2012/18/EU | |
| - Named dangerous substances - ANNEX I | None of the ingredients is listed. |
| - Seveso category | Not applicable |
| - Qualifying quantity (tonnes) for the application of lower-tier requirements | Not applicable |
| - Qualifying quantity (tonnes) for the application of upper-tier requirements | Not applicable |

-	REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)
	None of the ingredients is listed.

-	Regulation (EU) No 649/2012
	None of the ingredients is listed.

REGULATION (EU) 2019/1148

-	Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
	None of the ingredients is listed.

-	Annex II - REPORTABLE EXPLOSIVES PRECURSORS
	7429-90-5 Aluminum

-	Regulation (EC) No 273/2004 on drug precursors
	None of the ingredients is listed.

-	Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
	None of the ingredients is listed.

-	REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone depleting potential)
	None of the ingredients is listed.

Other regulations, limitations and prohibitive regulations

-	SVHC Candidate List of REACH Regulation Annex XIV Authorisation (14/6/2023)
	None of the ingredients is listed.

-	REACH Regulation Annex XVII Restriction (8/6/2023) See Section 16 for information about restriction of use.
	None of the ingredients is listed.

-	REACH Regulation Annex XIV Authorisation List (8/4/2022)
	None of the ingredients is listed.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

Section 16: Other Information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

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- Abbreviations and acronyms:

- **ADR:** Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- **IMDG:** International Maritime Code for Dangerous Goods
- **IATA:** International Air Transport Association
- **GHS:** Globally Harmonised System of Classification and Labelling of Chemicals
- **EINECS:** European Inventory of Existing Commercial Chemical Substances
- **ELINCS:** European List of Notified Chemical Substances
- **CAS:** Chemical Abstracts Service (division of the American Chemical Society)
- **DNEL:** Derived No-Effect Level (REACH)
- **PNEC:** Predicted No-Effect Concentration (REACH)
- **LC50:** Lethal concentration, 50 percent
- **LD50:** Lethal dose, 50 percent
- **PBT:** Persistent, Bioaccumulative and Toxic
- **vPvB:** very Persistent and very Bioaccumulative

End of Safety data sheet