



# ARCTIC MX-4

## Material Safety Datasheet

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

Date: 1-March-2023

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

#### 1.1 Product identifier

**Commercial name:** MX-4 Thermal Compound

**UFI code:** CQ30-XOFF-H00H-8J18

**Part No./UPC:** ACTCP00001B/87276700965-3  
ACTCP00002B/87276700958-5  
ACTCP00007B/87276700957-8  
ACTCP00008B/87276700959-2  
ACTCP00024A/87276700960-8  
ACTCP00031B/84003340046-6  
ACTCP00059A/84003340085-5  
ACTCP00071A/84003340153-1  
ACTCP00072A/84003340154-8  
ACTCP00073A/84003340155-5

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

Use of the substance or mixture: 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 1302-05, The Octagon

No.6 Sha Tsui Road

Tsuen Wan, New Territories

Hong Kong

Email address: info@arctic.ac

#### 1.4 Emergency telephone number

English Tel: +49 611237507

German Tel: +49 611237500

### Section 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

**Classification according to regulation (EC) No 1272/2008**

Not a hazardous substance or mixture

#### 2.2 Label elements

**Labelling according to regulation (EC) No 1272/2008**

Not a hazardous substance or mixture



## 2.3 Other hazards

None known

## Section 3: Composition/Information on Ingredients

According to regulation (EC) No 1272/2008:

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Aluminium powder (stabilised)	7429-90-5	-	231-072-3	81.4	Flam. Sol. 1, H228; Water-react. 2, H261
Polysiloxane	67762-85-0	-	-	18.5	-
Disilver oxide	20667-12-3	-	-	0.1	Ox. Sol. 1, H271; Eye Dam. 1, H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

CLP classifications are based on all current available data including from known international organizations.

These classifications are subject to revision as more information becomes available.

## Section 4: First Aid Measures

### 4.1 Description of first aid measures

#### Protection of first-aiders:

No special precautions are necessary for first aid-responders.

**If inhaled:** If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

**In case of skin contact:** Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

**In case of eye contact:** Flush eyes with water as a precaution.

Get medical attention if symptoms occur.

**If swallowed:** If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur.

Rinse mouth thoroughly with water.

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

None known

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

**Treatment:** Treat symptomatically and supportively



## Section 5: Firefighting Measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media:</b>	Water spray Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical
<b>Unsuitable extinguishing media:</b>	None known

### 5.2 Special hazards arising from the substance or mixture

<b>Specific hazards during firefighting:</b>	Exposure to combustion products may be a hazard to health.
<b>Hazardous combustion products:</b>	Carbon oxides Silicon oxides Formaldehyde Metal oxides

### 5.3 Advice for firefighters

<b>Special protective equipment for firefighters:</b>	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.
<b>Specific extinguishing methods:</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from the fire area if it is safe to do so. Evacuate area.

## Section 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear proper protective equipment.

### 6.2 Environmental precautions

Do not allow large quantities to enter drains or surface waters.

### 6.3 Methods and materials for containment and cleaning up

Scrape up and place in a container fitted with a lid. The spilled product produces an extremely slippery surface.

## Section 7: Handling and Storage

### 7.1 Advice on safe handling

General ventilation is recommended. Local ventilation is recommended. Avoid eye contact. Do not breathe vapour. Do not empty into drains.



## 7.2 Advice on storage

Do not store with oxidizing agents.

Storage temperature: minimum -25 °C, maximum 50 °C

## 7.3 Specific uses

Refer to technical data sheet available on request.

# Section 8: Exposure Controls/Personal Protection

## 8.1 Control parameters

Name	CAS-No.	Exposure Limits
Decamethyltetrasiloxane	141-62-8	200 ppm (8h TWA) ARCTIC recommendation

## 8.2 Exposure controls

**Engineering controls:** Ventilation : Refer to Section 7.1

### Personal protection equipment

**Respiratory protection:** Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded.

Depending on the working conditions, wear a respiratory mask with filter(s) A or use a self-contained respirator.

The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.

**Hand protection:** Gloves are not normally required.

**Eye/face protection:** Safety glasses should be worn.

**Skin protection:** Protective equipment is not normally necessary.

**Hygiene measures:** Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

**Additional information:** These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

### Environmental exposure controls

Refer to section 6 and 12.

# Section 9: Physical and Chemical Properties

**Form:** Grease

**Colour:** Grey.



<b>Odour:</b>	None
<b>Flash point:</b>	>100 °C (Seta Closed Cup)
<b>Explosive properties:</b>	No
<b>Specific gravity:</b>	4.20
<b>Oxidizing properties:</b>	No

The above information is not intended for use in preparing product specifications.  
Contact ARCTIC before writing specifications.

## Section 10: Stability and Reactivity

### 10.1 Reactivity:

None known.

### 10.2 Stability:

Stable under normal usage conditions.

### 10.3 Possibility of hazardous reactions

None known.

### 10.4 Conditions to avoid:

None established.

### 10.5 Materials to avoid:

Can react with strong oxidising agents.

### 10.6 Hazardous decomposition products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Metal products.

## Section 11: Toxicological Information

### 11.1 Acute toxicity:

On contact with eyes:	May cause temporary discomfort.
On skin contact:	No adverse effects are normally expected.
If inhaled:	No adverse effects are normally expected.
On ingestion:	No adverse effects are normally expected.

### 11.2 Chronic toxicity:

On skin contact:	No adverse effects are normally expected.
If inhaled:	No adverse effects are normally expected.
On ingestion:	No adverse effects are normally expected.



### 11.3 Toxicokinetics, metabolism and distribution

No specific information is available.

## Section 12: Ecological Information

### 12.1 Ecotoxicity effects

No adverse effects on aquatic organisms are predicted.

Invertebrates: Daphnia magna 48 Hrs EC50 > 100 mg/l

### 12.2 Persistence and degradability

Solid material, insoluble in water. No adverse effects are predicted.

### 12.3 Bioaccumulation

No bioaccumulation potential.

### 12.4 Release to waters/mobility in soil

Fate and effects in waste water treatment plants: No adverse effects on bacteria are predicted.

## Section 13: Disposal Considerations

### Product and packaging disposal

Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

## Section 14: Transport Information

### Road / Rail (ADR/RID)

Not subject to ADR/RID.

### Sea transport (IMDG)

Not subject to IMDG code.

### Air transport (IATA)

Not subject to IATA regulations.

## Section 15: Regulatory Information

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

#### Status

**EINECS:** All ingredients listed, exempt or notified (ELINCS).

**TSCA:** All chemical substances in this material are included on or exempted from listing on the Toxic Substances Control Act 8(b) Inventory. One or more chemical substances in this material meet the polymer exemption criteria in 40 CFR 723.250.

**IECSC:** All ingredients listed or exempt.

**ENCS/ISHL:** Consult your local ARCTIC office.

**KECL:** All ingredients listed, exempt or notified.



**PICCS:** One or more ingredients are not listed or exempt.

**DSL:** Consult your local ARCTIC office.

## Section 16: Other Information

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the ARCTIC product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the ARCTIC Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. ARCTIC shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local ARCTIC supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements.

Should you have any question, please refer to your local ARCTIC supplier.

**Source of information:** Internal data and publically available information