



# ARCTIC MX-6

## Material Safety Datasheet

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

Date: 1-October-2023

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

#### 1.1 Product identifier

**Commercial name:** ARCTIC MX-6 Thermal Compound

**UFI code:** DA50-J0K0-A00X-U13G

**Part No./UPC:** ACTCP00079A/84003340172-2  
ACTCP00080A/84003340173-9  
ACTCP00081A/84003340174-6  
ACTCP00084A/84003340175-3

#### 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.de

#### 1.4 Emergency telephone number

German Tel :+49 531 60945294

### 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

<b>Labelling according to Regulation (EC) No. 1272/2008</b>	Not applicable
<b>Hazard pictograms</b>	Not applicable
<b>Signal word</b>	Not applicable



<b>Hazard-determining components of labelling</b>	Not applicable
<b>Hazard statements</b>	Not applicable
<b>Precautionary statements</b>	Not applicable

## 2.3 Other hazards

### Results of PBT and vPvB assessment

PBT	Not applicable
vPvB	Not applicable
<b>Determination of endocrine-disrupting properties</b>	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)
Aluminium Substance with a Union workplace exposure limit	7429-90-5	231-072-3	81.4%
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene-polypropylene glycol mono-Me ether	67762-85-0	-	18.5%
Silver Oxide Ox. Sol. 2, H272; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	11113-88-5	-	0.1%

## Section 4: First Aid Measures

### 4.1 Description of first aid measures

<b>After inhalation:</b>	Supply fresh air; consult doctor in case of complaints.
<b>After skin contact:</b>	Generally the product does not irritate the skin.
<b>After eye contact:</b>	Rinse opened eye for several minutes under running water.
<b>After swallowing:</b>	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

<b>Suitable extinguishing agents</b>	Use fire extinguishing methods suitable to surrounding conditions.
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## 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 materials 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 measures required.

**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 (81.4%)	
AGW (Germany)	Long-term value: 1.25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**einatembar; AGS, DFG, Y
VLEP (France)	Long-term value: 5* 10** mg/m <sup>3</sup> *pulvérulent **métal
OEL (Ireland)	Long-term value: 1* mg/m <sup>3</sup> *metal, respirable fraction



### 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	
<b>BGW</b> (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

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

### Appropriate engineering controls:

Wash hands before breaks and at the end of work.

See Section 7 for information about design of technical facilities.

Individual protection measures, such as personal protective equipment

**Respiratory protection:** Not required.

**Hand protection:** The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.  
As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection:** Goggles recommended during refilling

**Body protection:** Protective work clothing

**Thermal hazards:** Not required for normal conditions of use.

**Environmental exposure controls:** Control measures must be made in accordance with community environmental protection legislation.



## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

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

### 9.2 Other information

<b>Appearance</b>	
Form:	Paste

### 9.3 Information with regard to physical hazard classes

<b>Explosives:</b>	Not available
<b>Flammable gases:</b>	Not available
<b>Aerosols:</b>	Not available
<b>Oxidising gases:</b>	Not available
<b>Gases under pressure:</b>	Not available
<b>Flammable liquids:</b>	Not available
<b>Flammable solids:</b>	Not available
<b>Self-reactive substances and mixtures:</b>	Not available
<b>Pyrophoric liquids:</b>	Not available
<b>Pyrophoric solids:</b>	Not available
<b>Self-heating substances and mixtures:</b>	Not available



<b>Substances and mixtures, which emit flammable gases in contact with water:</b>	Not applicable
<b>Oxidising liquids:</b>	Not applicable
<b>Oxidising solids:</b>	Not applicable
<b>Organic peroxides:</b>	Not applicable
<b>Corrosive to metals:</b>	Not applicable
<b>Desensitised explosives:</b>	Not applicable
<b>Other safety characteristics:</b>	Not available

## Section 10: Stability and Reactivity

### 10.1 Reactivity:

No further relevant information available

### 10.2 Chemical stability

No further relevant information available

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

No further relevant information available

### 10.5 Incompatible materials

No further relevant information available

### 10.6 Hazardous decomposition products

No dangerous decomposition products known.

## 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.

### 11.2 Information on other hazards

<b>Endocrine disrupting properties:</b>	None of the ingredients is listed.
<b>Other information:</b>	No further relevant information available.



## 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 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties

### 12.7 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 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

### Recommended restriction of use

Not applicable

### Relevant hazard statements

H272 May intensify fire; oxidiser.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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
Ox. Sol. 2:	Oxidizing solids – category 2
Skin Irrit. 2:	Skin corrosion/irritation – category 2
Eye Irrit. 2:	Serious eye damage/eye irritation – category 2
STOT SE 3:	Specific target organ toxicity (single exposure) – category 3