



# 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.
--------------------------------------	--



## 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.

### Disclaimer of liability

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

### Abbreviations and acronyms:

<b>ADR:</b>	Accord relatif au transport international des marchandises dangereuses par route (European agreement concerning the international carriage of dangerous goods by road)
<b>IMDG:</b>	International maritime code for dangerous goods
<b>IATA:</b>	International air transport association
<b>GHS:</b>	Globally harmonised system of classification and labelling of chemicals
<b>EINECS:</b>	European inventory of existing commercial chemical substances
<b>ELINCS:</b>	European list of notified chemical substances
<b>CAS:</b>	Chemical abstracts service (Division of the american chemical society)
<b>DNEL:</b>	Derived No-Effect Level (Reach)
<b>PNEC:</b>	Predicted No-effect concentration (Reach)
<b>LC50:</b>	Lethal concentration, 50 percent
<b>LD50:</b>	Lethal dose, 50 percent
<b>PBT:</b>	Persistent, bioaccumulative and toxic
<b>vPvB:</b>	Very persistent and very bioaccumulative
<b>Ox. Sol. 2:</b>	Oxidizing solids – category 2
<b>Skin Irrit. 2:</b>	Skin corrosion/irritation – category 2
<b>Eye Irrit. 2:</b>	Serious eye damage/eye irritation – category 2
<b>STOT SE 3:</b>	Specific target organ toxicity (single exposure) – category 3