



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

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)
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

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.
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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: $1.25 \cdot 10^{**} \text{ mg/m}^3$ 2(II);*alveolengängig**einatembar; AGS, DFG, Y
VLEP (France)	Long-term value: $5 \cdot 10^{**} \text{ mg/m}^3$ *pulvérulent **métal
OEL (Ireland)	Long-term value: $1 \cdot \text{mg/m}^3$ *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	
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

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

Physical state:	Paste
Colour:	Grey
Odour:	Odorless
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

Appearance	
Form:	Paste

9.3 Information with regard to physical hazard classes

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



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

Endocrine disrupting properties:	None of the ingredients is listed.
Other information:	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:

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