ARCTIC MX-2 – Material Safety Datasheet

According to article 31 and Annex II of the EU REACH Regulation

1. Identification of the Substance/Preparation and of the Company

1.1. Product name : ARCTIC MX-2

1.2 Identified uses : Electrical and electronic applications
Uses advised against : None known.

1.3 Company :
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2. Hazards Identification

2.1 Classification of the substance or mixture
According to EU Directives 67/548/EEC or 1999/45/EC: Not hazardous.

2.2 Label elements
Labelling according to EEC Directive
S-phrases : S23(V) Do not breathe vapour.
S51 Use only in well-ventilated areas.

3. Composition / Information on Ingredients

Chemical characterization: Silicone compound

According to EU Directives 67/548/EEC or 1999/45/EC:

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Decamethyltetrasiloxane	141-62-8	-	205-491-7	<=2.5	Substance with a Community workplace exposure limit

According to Regulation (EC) No. 1272/2008:

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Decamethyltetrasiloxane	141-62-8	-	205-491-7	<=2.5	Flammable liquid: Category 3 - H226

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.

4. First Aid Measures

4.1 Description of First Aid Measures:

On contact with eyes : No first aid should be needed.
On skin contact : No first aid should be needed.
If inhaled : Remove to fresh air.
On ingestion : No first aid should be needed.

5. Fire Fighting Measures

5.1 Suitable extinguishing media

On large fires use dry chemical, foam or water spray (fog). On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.

Unsuitable extinguishing media

None known.

5.2 Hazards during fire fighting

None known.

Hazardous Combustion

Thermal breakdown of this product during fire or very high heat conditions may evolve

Products

The following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Metal products.

5.3 Special protective equipment/procedures

A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

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.

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.

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.

9. Physical and Chemical Properties

Form :	Grease
Colour :	Grey.
Odour :	None
Flash point :	> 100 °C (Seta Closed Cup)
Explosive properties :	No
Specific Gravity :	4.20
Oxidizing properties :	No

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

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.

11. Toxicological Information

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.

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.

Toxicokinetics, metabolism and distribution

No specific information is available.

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.

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.

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.

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.

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
H226 Flammable liquid and vapour.,