

# ARCTIC MX-5 Material Safety Datasheet

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

Date: 1-October-2023

## Section 1: Identification of the substance and company undertaking

#### 1.1 Product name

**Commercial Name:** MX-5 Thermal Compound

**Part No.:** ACTCP00043A, ACTCP00044A, ACTCP00045A, ACTCP00046A, ACTCP00047A,

ACTCP00048A, ACTCP00049A, ACTCP00050A, ACTCP00051A, ACTCP00052A, ACTCP00053A, ACTCP00054A, ACTCP00055A, ACTCP00056A, ACTCP00057A, ACTCP00058A, ACTCP00065A, ACTCP00066A, ACTCP00068A, ACTCP

ACTCP00069A, ACTCP00070A

**Synonyms:** TIM, Thermal Interface Material, Thermal Compound, CPU Grease

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

Product Restrictions: Not applicable

#### 1.3 Supplier details

#### 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

English Tel: +49 611237507 German Tel: +49 531 60945294

## **Section 2: Hazards identification**

## 2.1 Emergency overview

Appearance Grease
Odor Not provided
No hazardous substance or mixture

#### 2.2 Classification of the substance or mixture

No hazardous substance or mixture

## 2.3 Label elements

No hazardous substance or mixture

[Physical and chemical hazards]: No relevant information

[Health hazards]: No relevant information



#### 2.4 Other hazards

No relevant information

# Section 3: Composition/information on Ingredients

#### 3.1 Mixtures

Description:

Mixture of the substances listed below with nonhazardous additionds. For the wording of the listed hazard statements refer to section 16.

Name	CAS-No.	Conc. (%)
Aluminum Oxide	1344-28-1	31.5
Magnesium Oxide	1309-48-4	9
Aluminum Powder	7429-90-5	27
Aluminum Nitride	24304-00-5	18
Boron Nitride	10043-11-5	4.5
Polydimethylsiloxane	63148-62-9	10

## **Section 4: First aid measures**

## 4.1 Description of first aid measures

**Eye Contact:** Immediately flush eyes with water for 15 to 20 minutes. Get medical attention if irritation

or symptoms of overexposure persist.

**Skin Contact:** Immediately wash skin with soap and water. Get medical attention if irritation

develops or persists.

**Inhalation:** If inhaled remove to fresh air. If not breathing give artificial respiration or oxygen by a

trained personnel. Seek immediate medical attention.

**Ingestion:** If swallowed do not induce vomiting. Call a physician or poison control center

immediately. Never give anything by mouth to an unconscious person.

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

Other First Aid: Exposure to soldering fumes and vapors may be irritation to the eyes, respiratory

system and skin.

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

Note to Physicians: none

## Section 5: Fire fighting measures

## 5.1 Extinguishing media

**Extinguishing Media:** Foam, carbon dioxide, dry chemical, water fog or spray.

Unsuitable Media: Not determined

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

**Unusual Fire Hazards:** None known



## 5.3 Advice for firefighters

**Fire Fighting Instructions:** Evacuate area of unprotected personnel. Use cold water spray to cool fire

exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off

water.

**Protective Equipment:** As in any fire, wear Self-Contained Breathing Apparatus (SCBA),

MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Fire: 0 NFPA Health: 1

NFPA Reactivity:

#### **Section 6: Accidental release measures**

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

**Personal Precautions:** Do not ingest. Use proper personal protective equipment as listed in

Section 8, wear gloves.

#### 6.2 Environmental precautions

**Environmental Precautions:** Avoid run-off into storm sewers, ditches and waterways

## 6.3 Methods and materials for containment and cleaning up

**Methods for Containment:** Collect product and repackage in a container.

**Methods for Cleanup:** Use common solvents such as mineral spirits, acetone or IPA. Provide

ventilation. After removal, flush spill area with soap and water to remove

trace residue.

#### 6.4 Reference to other sections

Other Spill Precautions: See section 13 for disposal information

## **Section 7: Handling and Storage**

#### 7.1 Precautions for safe handling

**Handling:** Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.

**Hygiene Practices:** Wash thoroughly after handling. Avoid contact with eyes and skin.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Storage:** Store in a cool, dry, well ventilated area away from heat sources, combustible materials

and incompatible substances. Keep container tightly closed when not in use.

#### 7.3 Specific end use(s)

## **Section 8: Exposure Controls, Personal Protection**

#### 8.1 Exposure controls

**Engineering Controls:** Safety Glasses and Gloves are recommended for hygienic practice.

**Ventilation:** Under normal conditions no special ventilation is needed.

**Eye Protection:** Safety glasses are not necessary.



**Skin Protection:** Gloves are not necessary.

**Hygiene Practices:** Wash thoroughly after handling. Avoid contact with eyes and skin.

## **Section 9: Physical and Chemical Properties**

## 9.1 Information on basic physical and chemical properties

Physical State: Paste

**Colour:** White, blue or grey

**Odor:** Odorless

pH: Not determined Not determined **Melting Temperature: Boiling Temperature:** >400 F / >204 C Flash Point: Not determined **Ignition Temperature:** Not determined **Lower Flammable Limit:** Not determined Not determined **Upper Flammable Limit: Vapor Pressure:** Not determined Vapor Density: Not determined

Solubility: Insoluble

**Specific Gravity:** 2.2 – 3.0 (H2O = 1) **Evaporation Rate:** < 0.01 (butyl acetate = 1)

Partition Coefficient:Not determinedPercent Volatile:Not determinedVOC Content:Not determined

**Viscosity:** 100,000 – 1,500,000 cP@ 1, 10 sec-1 shear @ 25 C

Odor Threshold:Not determinedOxidizing Properties:Not an oxidizerExplosive Properties:Not determined

#### 9.2 Other information

# Section 10: Stability and Reactivity

## 10.1 Reactivity:

**Reactivity:** No data available

## 10.2 Chemical stability

**Chemical Stability:** Stable under recommended handling and storage conditions

#### 10.3 Possibility of hazardous polymerization

**Hazardous Polymerization:** Will not occur

#### 10.4 Conditions to avoid:

**Conditions to Avoid:** Heat, flames and sparks

## 10.5 Incompatible materials

**Incompatible Materials:** Oxidizing agents.



## 10.6 Hazardous decomposition

**Hazardous Decomposition:** None known

# **Section 11: Toxicological Information**

## 11.1 Information on toxicological effects

**PreExisting Conditions**None generally recognized.

Aggravated by Exposure:

Acute Inhalation Effects:May be harmful if inhaled.Acute Skin Effects:May cause skin irritation.Acute Ingestion Effects:May be harmful if ingested.Acute Eye Effects:May cause eye irritation.

**Zinc Oxide Eye Toxicity:** Administration into the eye – Rabbit Standard Draize test:

500mg/24H [Mild] (RTECS)

## **Section 12: Ecological Information**

## 12.1 Ecotoxicity effects

**Ecotoxicity:** No data available for this product. **Environmental Stability:** No data available for this product.

#### 12.2 Bioaccumulative potential

**Bioaccumulation:** No data available for this product.

#### 12.3 Mobility in soil

Mobility in environmental

Media:

No data available for this product.

#### **Section 13: Disposal Information**

#### 13.1 Waste treatment methods

**Waste Disposal:** Dispose of in accordance with Local, State, Federal and Provincial regulations

## **Section 14: Transport Information**

- UN Number: N/A
- UN Proper Shipping Name: Non-Hazardous Heat Sink Compound
- Transport Hazard Class: Non-Hazardous
- Environmental Hazards (Marine Pollutant): No
- Transport in Bulk: Yes
- Special Transport Precautions: N/A
- Not a hazardous material for DOT, TDG classification, ADR/RID, IMDG, and IATA-DGR shipping.



# **Section 15: Regulatory Information**

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

**Regulatory - Product Based SARA:** Listed, Zinc Compounds

**Regulatory - Ingredient Based:** 

Zinc Oxide:

Canada DSL:ListedTSCA Inventory Status:ListedEC Number:215-222-5

## **Section 16: Other Information**

**Revision Date:** January 15, 2020

#### Disclaimer:

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