

ARCTIC MX-5 Material Safety Datasheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Date: 11-NOV-2020

Section 1: Identification of the substance and company undertaking

1.1 Product name

Commercial Name: Part No.:	MX-5 Thermal Compound ACTCP00043A, ACTCP00044A, ACTCP00045A, ACTCP00046A, ACTCP00047A, ACTCP00048A, ACTCP00049A, ACTCP00050A, ACTCP00051A, ACTCP00052A, ACTCP00053A, ACTCP00054A, ACTCP00055A, ACTCP00056A, ACTCP00057A, ACTCP00058A
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.ac

1.4 Emergency telephone number

English Tel: +49 611237507 German Tel: +49 611237500

Section 2: Hazards identification

2.1 Emergency overview

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

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: Fxtinguishing Media: Foam, carbon dioxide, dry chemical, water fog or spray. Unsuitable Media: Not determined

system and skin.

5.2 Special hazards arising from the substance or mixture

Unusual Fire Hazards: None known





5.3 Advice for fire	efighters
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:	0

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: Hygiene F	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.actices: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	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.

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

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
Melting Temperature:	Not determined
Boiling Temperature:	>400 F / >204 C
Flash Point:	Not determined
Ignition Temperature:	Not determined
Lower Flammable Limit:	Not determined
Upper Flammable Limit:	Not determined
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 determined
Percent Volatile:	Not determined
VOC Content:	Not determined
Viscosity:	100,000 - 1,500,000 cP@ 1, 10 sec-1 shear @ 25 C
Odor Threshold:	Not determined
Oxidizing Properties:	Not an oxidizer
Explosive Properties:	Not determined

9.2 **Other information**

Section 10: Stability and Reactivity			
	10.1	Reactivity:	
	Reactivity	:	No data available
	10.2	Chemical stability	
	Chemical S	Stability:	Stable under recommended handling and storage conditions
	10.3	Possibility of hazar	dous polymerization
	Hazardous	s Polymerization:	Will not occur
	10.4	Conditions to avoi	id:
Conditions to Avoid: 10.5 Incompatible mate		s to Avoid:	Heat, flames and sparks
		Incompatible mate	erials
	Incompati	ble 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 effectsNo data available for this product.Ecotoxicity:No data available for this product.Environmental Stability:No data available for this product.12.2 Bioaccumulative potentialBioaccumulative:No data available for this product.Diaccumulative:No data available for this product.

No data available for this product.

12.3 Mobility in soil

Mobility in environmental Media:

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:	Listed
TSCA Inventory Status:	Listed
EC Number:	215-222-5

Section 16: Other Information

Revision Date:

January 15, 2020

Disclaimer:

The information herein is presented in good faith and believed to be accurate as of the revision date shown above. However, no warranty, expressed or implied is given. It is the buyer's responsibility to ensure that its activities comply with local, state, federal and provincial laws. Additionally, Thermal Compounds assumes no responsibility for injury to the end user, who assumes the risk in the use of this material.

