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SDS Number: 148
 Revision Date: 07/15/2019
 Supersedes Date: 04/21/2015

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: HEAT SINK COMPOUND

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Type: Silicone
 Product Name: **HEAT SINK COMPOUND**
 Part Number(s): **10-8106**
 10-8108
 10-8109

Emergency Contact: Chemtrec
Phone: (800) 424-9300

SECTION 2: HAZARD IDENTIFICATION

GHS Class Phrases:

Hazardous to the aquatic environment, short term, acute, category 1
 Hazardous to the aquatic environment, long term, chronic, category 1

Signal Words: Warning.

Hazard Statements: H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects



Precautionary Statement:

P273 - Avoid release to the environment
 P391 - Collect Spillage
 P501 - Dispose of contents/container in accordance with Local, State, Federal, and Provincial Regulations.

2.3 Other Hazards: none

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Zinc Oxide	CAS# 1314-13-2 H315, H319, H400, H410 Skin Irritation, category 2 Eye Irritation, category 2 Hazardous to the aquatic environment, short term, acute, category 1 Hazardous to the aquatic environment, long term, chronic, category 1	0 - 90%
Proprietary	No Data	0 - 10%
Magnesium Oxide	CAS # 1309-48-4	0 - 90%
Aluminum Nitride	CAS # 24304-00-5	0 - 90%
Aluminum Powder	CAS # 7429-90-5	0 - 90%
Aluminum Oxide	CAS # 1344-28-1	0 - 90%
Boron Nitride	CAS # 10043-11-5	0 - 90%

Zinc Oxide Comment: Skin and Eye irritation warnings are applicable to the loose powder form only and do not apply to this product

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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 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-of 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: 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

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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical State:	Paste	Specific Gravity:	2.2 – 3.0 (H ₂ O = 1)
Color:	White, off white or grey	Evaporation Rate:	< 0.01 (butyl acetate = 1)
Odor:	Odorless	Partition Coefficient:	Not determined
pH:	Not determined	Percent Volatile:	Not determined
Melting Temperature:	Not determined	VOC Content:	Not determined
Boiling Temperature:	>400 F / >204 C	Viscosity:	100,000 – 1,500,000 cP@ 1, 10 sec-1 shear @ 25 C
Flash Point:	Not determined	Odor Threshold:	Not determined
Ignition Temperature:	Not determined	Oxidizing Properties:	Not an oxidizer
Lower Flammable Limit:	Not determined	Explosive Properties:	Not determined
Upper Flammable Limit:	Not determined		
Vapor Pressure:	Not determined		
Vapor Density:	Not determined		
Solubility:	Insoluble		

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:** Toxic gases such as ZnO fumes may be released in a fire**SECTION 11: TOXICOLOGICAL INFORMATION****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)



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SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity **Ecotoxicity:** Harmful to aquatic organisms, may cause long term effects in the aquatic environment.
Environmental Stability: No data available for this product.
- 12.3 Bioaccumulative potential **Bioaccumulation:** No data available for this product.
- 12.4 Mobility in soil **Mobility in environmental Media:** No data available for this product

SECTION 13: DISPOSAL INFORMATION

Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Not regulated as hazardous material for transportation
DOT UN Number: Not regulated as hazardous material for transportation
IMDG Shipping Name: Environmentally hazardous substance, solid, n.o.s (ZnO)
IMDG UN Number: UN3077
IMDG Hazard Class: 9
IMDG Packing Group: III
IATA Shipping Name: Environmentally hazardous substance, solid, n.o.s (ZnO)
IATA UN Number: UN3077
IATA Hazard Class: III
IATA Subrisk: 9
RID/ADR Shipping Name: Environmentally hazardous substance, solid, n.o.s. (ZnO)
RID/ADR UN Number: UN3077
RID/ADR Hazard Class: 9
RID/ADR Packing Group: III

SECTION 15: REGULATORY INFORMATION

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



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SECTION 16: OTHER INFORMATION

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. Persons receiving information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.

HMIS:

Health	1
Flammability	0
Reactivity	0
PPE	X