3100 N.W. 36th Street
Miami, FL, 33142
PH: (833) 423-0432
www.gcelectronics.com

SDS Number: 148
Revision Date: 01/xx/2024
Supersedes Date: 01/15/2023

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

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

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

3.2 Mixtures

Zinc Oxide	**CAS# 1314-13-2**	**0 – 90%**
	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	
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 fireexposed 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: 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

8.2 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
Color:	White, off white 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: Solubility:	Not determined
Specific Gravity:	Insoluble
Evaporation Rate:	2.2 – 3.0 (H2O = 1)
Partition Coefficient:	< 0.01 (butyl acetate = 1)
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 determined
Explosive Properties:	Not determined

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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

11.1 Information on toxicological effects

PreExisting Conditions Aggravated by Exposure: None generally recognized.

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

Ecotoxicity: Environmental Stability: Harmful to aquatic organisms, may cause long term effects in the aquatic environment. 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 CONSIDERATIONS

13.1 Waste treatment methods

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

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SECTION 14. TRANSPORTATION INFORMATION

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not available.	UN3077	UN3077	UN3077	UN3077
UN proper shipping name	Not available.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)
Transport hazard class(es)	Not available.	9	9	9	9
Packing group	-	III	III	III	III
Environmental hazards	No.	Yes.	Yes.	Yes.	Yes.

Additional information

TDG Classification
Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).
Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.

Mexico Classification
The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IMDG
This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA
This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user
Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

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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

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