

**SAFETY DATA SHEET**

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

**Product Name: HEAT SINK TYPE 44 NON-SILICONE****SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

Product Type: Solvent Release Adhesive RTV      **Emergency Contact: Chemtrec**  
Product Name: **HEAT SINK TYPE 44 NON-SILICONE**      **Phone: (800) 424-9300**  
Part Number(s): **10-8118, 10-8120, 10-8126**

**Product Restrictions:** Not applicable**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:****Hazard Statements:****Precautionary Statement:**

Warning.

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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**

<b>Zinc Oxide</b>	<b>CAS# 1314-13-2</b>	<b>0 – 90%</b>
	H315,H319,H400,H410	
	SkinIrritation,category 2	Eye Irritation,category 2
	Hazardoustotheaquatic environment,shortterm,	acute,category 1
	Hazardoustotheaquatic environment,longterm,	chronic,category 1
<b>Proprietary</b>	<b>No Data</b>	<b>0 – 10%</b>
<b>Magnesium Oxide</b>	<b>CAS # 1309-48-4</b>	<b>0 – 90%</b>
<b>Aluminum Nitride</b>	<b>CAS # 24304-00-5</b>	<b>0 – 90%</b>
<b>Aluminum Powder</b>	<b>CAS # 7429-90-5</b>	<b>0 – 90%</b>
<b>Aluminum Oxide</b>	<b>CAS # 1344-28-1</b>	<b>0 – 90%</b>
<b>Boron Nitride</b>	<b>CAS # 10043-11-5</b>	<b>0 – 90%</b>

**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

**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-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.

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#### SECTION 6. ACCIDENTAL RELEASE MEASURES CONTINUED

##### 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.

#### 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

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

**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 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. TRANSPORT INFORMATION

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
<b>UN number</b>	Not available.	UN3077	UN3077	UN3077	UN3077
<b>UN proper shipping name</b>	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)
<b>Transport hazard class(es)</b>	Not available.	9	9	9	9
		 	 	 	 
<b>Packing group</b>	-	III	III	III	III
<b>Environmental hazards</b>	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.

#### 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



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### **SECTION 16. DISCLAIMER (OTHER INFORMATION)**

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