

# SAFETY DATA SHEET

Finished Product



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## Non-Silicone Heat Sink Compound NTE424

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Brand Name	NTE424
Product Description:	Non-Silicone Thermal Compound
Product Code	NTE434
Marketer Contact Information:	NTE Electronics, Inc. 44 Farrand Street Bloomfield, NJ 07003 (973) 748-5089
Emergency Phone:	1-800-631-1250 8:00 am – 5:00 pm EST

### SECTION 2. HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

OSHS HCS (29 CFR 1910.1200)	Not classified as dangerous for supply/use.
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#### Label Elements

Hazard Symbol	None
Hazard Statement(s)	None
Precautionary Statement(s)	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Keep out of reach of children.
Other hazards which do not result in classification	None

### SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

Ingredients	% wt.	CAS No.
Zinc Oxide	50 - 80	1314-13-2

#### Additional Information

None

### SECTION 4. FIRST-AID MEASURES

#### Description of Necessary First Aid Measures

Ingestion:	Do not induce vomiting, wash out mouth with water. Rinse mouth. Do not give anything by mouth to an unconscious person. Seek medical treatment.
Inhalation	Unlikely to be required but if necessary treat symptomatically.
Skin Contact	Unlikely to be required but if necessary treat symptomatically.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms occur obtain medical attention.

#### Most Important Symptoms and Effects, Both Acute and Delayed

None

**SECTION 4. FIRST-AID MEASURES (Cont'd)****Indication of any Immediate Medical Attention and Special Treatment Needed**

None

**SECTION 5. FIRE FIGHTING MEASURES****Extinguishing Media**

<b>Suitable Extinguishing Media:</b>	As appropriate for surrounding fire.
<b>Unsuitable Extinguishing Media:</b>	None known
<b>Specific Hazards Arising from the Substance or Mixture</b>	None known
<b>Advice for Fire-Fighters</b>	A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Not normally required. Wear protective gloves/eye protection.
<b>Environmental Precautions</b>	Not normally required. Contain effluent and prevent effluent from entering sewers and waterways.
<b>Methods and Materials for Containment and Cleaning Up</b>	Transfer to a container for disposal or recovery.
<b>Reference to Other Sections</b>	None
<b>Additional Information</b>	None

**SECTION 7. HANDLING AND STORAGE**

<b>Precautions for Safe Handling</b>	Avoid contact with skin and eyes.
<b>Conditions for Safe Storage, Including and Incompatibilities</b>	Store at room temperature.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Occupational Exposure Limits**

Substance	CAS No.	(8hr TWA)		STEL		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Mica	12001-26-2	20 mppcf	3 mg/m <sup>3</sup>	-	-	-

<b>Recommended Monitoring Method</b>	NIOSH 0600
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**Exposure Controls**

<b>Appropriate Engineering Controls</b>	No special measures are required.
<b>Environmental Exposure Controls</b>	Avoid release to the environment.

**Personal Protection Equipment**

<b>Eye/Face Protection</b>	Not normally required
<b>Skin Protection (Hand Protection/Other)</b>	Not normally required
<b>Respiratory Protection</b>	Normally no personal respiratory protection is necessary. An approved dust mask should be worn if dust is generated during handling.
<b>Thermal Hazards</b>	Not normally required. Use gloves with insulation for thermal protection, when needed.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic Physical and Chemical Properties**

<b>Appearance</b>	Heavy Paste
<b>Color</b>	White
<b>Odor</b>	Not Available
<b>Odor Threshold (ppm)</b>	Not Available.
<b>pH (Value)</b>	Not Available.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (Cont'd)****Appearance (Cont'd)**

<b>Melting Point (°C) / Freezing Point (°C)</b>	Not Available.
<b>Boiling Point/Boiling Range (°C)</b>	> 200
<b>Flash Point (°C)</b>	> 200
<b>Evaporation Rate</b>	< 1
<b>Flammability (Solid, Gas)</b>	Not Available
<b>Explosive Limit Ranges</b>	Not Available
<b>Vapor Pressure (Pascal)</b>	Not Available.
<b>Vapor Density (Air = 1)</b>	Not Available.
<b>Density (g/ml)</b>	2.7
<b>Solubility (Water)</b>	Insoluble
<b>Solubility (Other)</b>	Not Available
<b>Partition Coefficient (n-Octanol/water)</b>	Not Available.
<b>Auto-Ignition Point (°C)</b>	Not Available
<b>Decomposition Temperature (°C)</b>	Not Available.
<b>Kinematic Viscosity</b>	Not Available.
<b>Explosive Properties</b>	Not Explosive
<b>Oxidizing Properties</b>	Not Oxidizing

**Other Information**

No additional information.

**SECTION 10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical Stability</b>	Stable.
<b>Possibility of Hazardous Reactions</b>	None anticipated.
<b>Conditions to Avoid</b>	None known
<b>Incompatible Materials</b>	None known
<b>Hazardous Decomposition Product(s)</b>	None known

**SECTION 11. TOXICOLOGICAL INFORMATION**

<b>Exposure Routes: Skin Contact, Eye Contact</b>	This material is unlikely to present a significant health hazard under normal conditions of handling and use.
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**SECTION 12. ECOLOGICAL INFORMATION****Toxicity****Zinc Oxide (CAS # 1314-13-2)**

<b>Short Term</b>	LC50 (96 hour): 1.793mg/L (Danio rerio) EC50 (48 hour): 2.6-9mg/l (Daphnia magna, mobility) IC50 (96 hour): 0.136mg/l (Pseudokirchnerella subcapitata)
<b>Long Term (By Analogy with Similar Materials)</b>	NOEC (30 days): 0.075mg/l (Jordanella floridae) NOEC (21 days): 0.156mg/l (Daphnia magna) NOEL (96 hour): 0.06mg/l (Algae)
<b>Persistence and Degradability</b>	This substance is predicated not to degrade in soil and water.
<b>Bioaccumulative Potential</b>	The substance has low potential for bioaccumulation
<b>Mobility in Soil</b>	The substance has low mobility in soil
<b>Results of PBT and vPvB Assessment</b>	Not classified as PBT or vPvB
<b>Other Adverse Effects</b>	None known

**SECTION 13. DISPOSAL CONSIDERATIONS**

<b>Waste Treatment Methods</b>	Disposal should be in accordance with local, state, or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
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**SECTION 14. TRANSPORT INFORMATION**

The information shown below I for packages exceeding 30kg (66lbs), gross weight, and/or when any inner packages exceed 5kg (11lbs). For limited quantities, packaging materials must nonetheless comply with applicable specifications and may nonetheless require certain labeling information (e.g. the UN number in black diamond). Refer to application hazardous materials transportation regulations.

	<b>Land Transport (U.S. DOT)</b>	<b>Sea Transport IMDG)</b>	<b>Ai Transport (ICAO/IATA)</b>
<b>UN Number</b>	-	UN3077	UN3077
<b>Proper Shipper Name</b>	Not regulated for ground shipments in the U.S. in non-bulk packaging (< 119 gallons)	Environmentally Hazardous Substance, solid, n.o.s. (zinc oxide)	Environmentally Hazardous Substance, solid, n.o.s. (zinc oxide)
<b>Transport Hazard Class(es)</b>	-	9	9
<b>Packing Group</b>	-	None	None
<b>Environmental Hazards</b>	-	Yes	Yes
<b>Special Precautions for User</b>	-	None assigned	None assigned

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable

**SECTION 15. REGULATORY INFORMATION**

**Safety, health, and environmental regulations/legislations specific for the substance or mixture:**

**TSCA (Toxic Substance Control Act) – Inventory Status:** All components listed or polymer exempt.

**Designated Hazardous Substances and reportable Qualities (40 CFR 302.4):**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Typical %wt.</b>	<b>RQ (Pounds)</b>
None	-	-	-

**SARA 311/312 – Hazard Categories:** None

Fire     Sudden Release     Reactivity     Immediate (acute)     Chronic (delayed)

**SARA 313 – Toxic Chemicals (40 CFR 372):**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Typical %wt.</b>
Zinc Compound	1314-13-2	65

**SARA 302 – Extremely Hazardous Substances (40 CFR 355):**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Typical %wt.</b>	<b>TPQ (Pounds)</b>
None	-	-	-

**California Proposition 65 List:**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Type of Toxicity</b>
None	-	-

**SECTION 16. OTHER INFORMATION****Further Information**

This information above is believed to be accurate and represents the best information currently available to us. However, neither NTE nor any of its subsidiaries make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.