

SAFETY DATA SHEET

Finished Product



Date-Issued: July 2005
SDS Ref. No: NTE424
Date-Revised: 11/8/2017
Revision No: 006

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:	CHEMTREC 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

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

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**

Suitable Extinguishing Media:	As appropriate for surrounding fire.
Unsuitable Extinguishing Media:	None known
Specific Hazards Arising from the Substance or Mixture	None known
Advice for Fire-Fighters	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

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

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid contact with skin and eyes.
Conditions for Safe Storage, Including and Incompatibilities	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 ³	-	-	-

Recommended Monitoring Method	NIOSH 0600
--------------------------------------	------------

Exposure Controls

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

Personal Protection Equipment

Eye/Face Protection	Not normally required
Skin Protection (Hand Protection/Other)	Not normally required
Respiratory Protection	Normally no personal respiratory protection is necessary. An approved dust mask should be worn if dust is generated during handling.
Thermal Hazards	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**

Appearance	Heavy Paste
Color	White
Odor	Not Available
Odor Threshold (ppm)	Not Available.
pH (Value)	Not Available.

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

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

Other Information

No additional information.

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure Routes: Skin Contact, Eye Contact	This material is unlikely to present a significant health hazard under normal conditions of handling and use.
---	---

SECTION 12. ECOLOGICAL INFORMATION**Toxicity****Zinc Oxide (CAS # 1314-13-2)**

Short Term	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)
Long Term (By Analogy with Similar Materials)	NOEC (30 days): 0.075mg/l (Jordanella floridae) NOEC (21 days): 0.156mg/l (Daphnia magna) NOEL (96 hour): 0.06mg/l (Algae)
Persistence and Degradability	This substance is predicated not to degrade in soil and water.
Bioaccumulative Potential	The substance has low potential for bioaccumulation
Mobility in Soil	The substance has low mobility in soil
Results of PBT and vPvB Assessment	Not classified as PBT or vPvB
Other Adverse Effects	None known

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods	Disposal should be in accordance with local, state, or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
--------------------------------	---

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.

	Land Transport (U.S. DOT)	Sea Transport IMDG)	Ai Transport (ICAO/IATA)
UN Number	-	UN3077	UN3077
Proper Shipper Name	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)
Transport Hazard Class(es)	-	9	9
Packing Group	-	None	None
Environmental Hazards	-	Yes	Yes
Special Precautions for User	-	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):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-	-	-

SARA 311/312 – Hazard Categories: None

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

SARA 313 – Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Zinc Compound	1314-13-2	65

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

Chemical Name	CAS No.	Typical %wt.	TPQ (Pounds)
None	-	-	-

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
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.