



SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Not applicable.
CAS No.	Mixture
Trade Name	Blue Ice 417
Product Code	None

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Heat conducting paste for electronics
Uses Advised Against	None

Company Identification	Timtronics 35 Old Dock Road. Yaphank, NY 11980
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Telephone	(631) 345-6509
E-Mail (competent person)	info@timtronics.com

Emergency telephone number

Emergency Phone No.	Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA 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

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

Additional Information - None



SECTION 4: FIRST AID MEASURES



Description of first aid measures

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.
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.

Most important symptoms and effects, both acute and delayed None

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.

Special 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 material 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 any incompatibilities

-Storage temperature	Store at room temperature.
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-Incompatible materials

None known

Specific end use(s)

Heat conducting putty for electronics

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

Unlikely to be hazardous by inhalation.

Exposure controls

Appropriate engineering controls

No special measures are required.

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.

Environmental Exposure Controls

Avoid release to the environment.

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
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
Vapour pressure (Pascal)	Not available
Vapour 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	Not available

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	
<u>Zinc oxide (CAS # 1314-13-2)</u>	
Short term	LC50 (96 hour): 1.793 mg/L (Danio rerio) EC50 (48 hour): 2.6-9 mg/l (<i>Daphnia magna</i> , mobility) IC50 (96 hour): 0.136 mg/l (<i>Pseudokirchnerella subcapitata</i>)
Long Term (By analogy with similar materials)	NOEC (30 days) 0.0 75 mg/l (Jordanella floridae) NOEC (21 days): 0.156 mg/l (<i>Daphnia magna</i>) NOEL (96 hour) 0.06 mg/l (Algae)
Persistence and degradability	This substance is predicted 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.
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SECTION 14: TRANSPORT INFORMATION

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

Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
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UN number	----	UN3077	UN3077
Proper Shipping 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/legislation specific for the substance or mixture:

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

Designated Hazardous Substances and Reportable Quantities (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 compounds	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

The following sections contain revisions or new statements:

1-16. Date of preparation: September 01, 2017

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