

**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	<b>Blue Ice 417</b>
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)	<a href="mailto:info@timtronics.com">info@timtronics.com</a>

**Emergency telephone number**

Emergency Phone No.	<b>Transportation Emergency:</b> 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 <sup>3</sup>	-----	-----	

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.
<b>Other information</b>	Not available

## 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

**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): 1.793 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) 0.075 mg/l ( <i>Jordanella floridae</i> ) NOEC (21 days): 0.156 mg/l ( <i>Daphnia magna</i> ) NOEL (96 hour) 0.06 mg/l (Algae)
<b>Persistence and degradability</b>	This substance is predicted 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 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)



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

Revision Date> January 1, 2021

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