Timtronics

Material Safety Data Sheet

Blue Ice 411

I. Product and Supplier Information

Product Name: **Blue Ice 411**

MSDS Number:411
Publication Date: .Aug, 2007
Replaces: New

Product Synonyms: Non-Silicone Thermal compound
Chemical Family or Formula: Complex mixture

Supplier: **Timtronics**
35 Old Dock Rd.
Yaphank, NY 11980-9702
Phone: **631-345-6509**
Fax: **631-775-4023**
Website: www.timtronics.com
Email: info@timtronics.com
Product Information: 631-345-6509
Transportation Emergency: 631-345-6509

Note: The purpose of this MSDS is to provide safe handling, shipping and disposal information for users of the product. It is not intended to, nor does it, provide complete or extensive toxicological data on the product or its components. Users who require this information are referred to primary suppliers of the ingredients of interest.

II. Composition and Information on Ingredients

Component Name	CAS #	Concentration
Poly Synthetic Fluid	Propriotory information	> 20%
Zinc Oxide*	1314-13-2	> 60%

* Material in non-airborn form

III. Hazards Identification

OSHA Hazard Classification:
No warning statements required.
Routes of Entry: Inhalation, skin contact, ingestion
Chemical Interactions: Avoid contact with all oxidizing agents.

IV. First Aid

Inhalation:
Remove individual to fresh air. If not breathing, give artificial respiration or oxygen as appropriate. Keep patient warm. Seek immediate medical advice.
Not an expected route of entry. Overexposure may cause irritation of the mucous membranes and respiratory tract.

Skin Contact:
Flush skin thoroughly with soap and water. Rinse thoroughly. Seek medical advice if contact was extensive.
Prolonged direct skin contact may cause dermatitis or irritation.

Eyes:
Immediately flush eyes with plenty of water while holding eyelids apart. Seek immediate medical advice.
Overexposure to direct eye contact may cause redness, irritation, discomfort or tearing.

Ingestion:
May produce laxative effect.
Seek immediate medical advice. Never give anything by mouth to an unconscious person.
Symptoms may include: Headache, dizziness, nausea, intestinal disorders and unconsciousness.
Not an expected route of exposure. Ingestion may cause abdominal pains, cramping, nausea or vomitting.
Notes To Physician: Treat symtomatically.

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V. Fire Fighting Measures

Flammability Summary:

Heavy Grease Flash Point: > 400 F

Fire/Explosion Hazards:

This material is not considered a potential fire and explosion hazard under normal operating conditions.

Extinguishing Media:

Foam, dry chemical or CO2. Water spray may be used to cool containers.
Do not allow contaminated water to enter sewers or waterways.

Fire Fighting Instructions:

In case of fire, use normal fire fighting equipment including a NIOSH approved self-contained breathing breathing apparatus (SCBA). Use water to cool containers.

Hazardous Combustion Products:

Oxides of carbon.

VI. Accidental Release Measures

Personal Protection for Emergency Situations:

Evacuate the area if neccessary. Eliminate any ignition sources until the area is determined to be free from explosion and fire hazards. Contain the release and eliminate its source if this can be done safely. Wear protective clothing. Keep unprotected persons away from spill.

Spill Mitigation Procedures

Air Release:

Low volatility makes this hazard unlikely.
Provide adequate ventilation. Keep away from ignition sources.

Water Release:

Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.
Notify all downstream users of possible contamination. Keep away from ignition sources.
Do not flush to sewer! US regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of stipulated quantities. US Coast Guard National Response Center is 800-424-8802.

Land Release:

Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. Decontaminate all clothing and the spill area using a detergent and flush with large amounts of water. Contain all contaminated water for disposal and/or treatment.

Additional Spill Information:

Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under Section XIII, Disposal Considerations.

VII. Handling and Storage

Handling:

Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash with soap and water. Avoid breathing vapor or mist.

Storage

Keep container tightly closed. Store in a cool area away from ignition sources and oxidizers.
No special precautions need be taken if product is handled according to directions.

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VIII. Exposure Controls and Personal Protection

Ventilation:

Local exhaust ventilation or other engineering controls are normally NOT necessary when handling or using this product. General exhaust ventilation is usually sufficient for general worker safety and comfort.

Explosion proof motors and fans are not required for unheated handling.

Respirator Type(s):

Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin: Wear impervious gloves (butyl rubber, Viton, e.g.) to avoid skin contact. Follow good industrial hygiene practices.

Eyes: Use chemical safety glasses with side shields, safety goggles and/or a full face shield where splashing is possible.

Protective Clothing Type: Impervious

IX. Physical and Chemical Data

Physical State:	Light grease
Color:	White or Blue
Odor:	Nil

Explosive limits:

No data. Low volatility makes ambient explosive vapor concentrations impossible.

Molecular Weight:	Not applicable to mixtures	Vapor Density (Air = 1):	No data
pH (@ 25 Deg. C):	Not applicable	Vapor Pressure: (@ 20 Deg. C):	< 1
Octanol/Water Coeff:	No data	Evaporation Rate (Estimated):	< 1
Solubility in Water:	negligible	Flash Point, (Estimated)	> 400F
Bulk Density:	Not applicable	Volatiles % by vol.:	negligible
Specific Gravity (68 Deg.F):	2.4	Approximate Boiling Point (deg.F):	> 400
		Drop Point:	None

X. Stability and Reactivity

Stability and Reactivity Summary:

Stable under normal conditions.

Reactive Properties:

Sensitivity to mechanical shock:	None
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	High temperatures, ignition sources, oxidizing materials.
Chemical Incompatibility:	Oxidizers.
Incompatible materials:	No data

Hazardous Decomposition Products: CO, CO2

Decomposition Temperature: No data

Product May Be Unstable At Temperatures Above: No data

XI. Toxicological Information

Component Animal Toxicology

Oral LD50 value:	No data
Dermal LD50 value:	No data
Inhalation LC50 value:	No data
Product Animal Toxicity	No data

Skin Irritation:

This material is expected to be slightly C180irritating to the skin and mucous membranes.

Eye Irritation:

This material is expected to be irritating.

Reproductive and Developmental Toxicity:

No reproductive or developmental risk to humans is expected from exposure to this product.

Component Data:

All data refer to finished product

Mutagenicity:

Not known or reported to be mutagenic.

Carcinogenicity:

This chemical is not known or reported to be carcinogenic by any reference source including IARC, EPA OSHA, NTP, or ACGIH.

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XII. Ecological Information

Ecological Toxicity Values:

Do not allow this material to be released to the environment without appropriate governmental permits.

Environmental fate: No information found

Environmental Toxicity No information found

XIII. Disposal Considerations

Consult current local, state and national regulations to ensure proper disposal.

Waste Disposal Summary:

Product as made does not qualify as an "Unlisted Hazardous Waste" for disposal situations.

Disposal Methods:

Dispose of in accordance with local, state and federal regulations for hazardous waste.

XIV. Transportation Information

Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number	
	Not regulated
Labels required per 49 CFR 172.101:	None
Size for "Limited quantity" per 49 CFR 173.150-.155:	Not applicable
Reportable Quantity ("RQ") per 49 CFR172.101:	None
Air (IATA/ICAO): Passenger & Cargo:	Not applicable
Eff. Jan 1, 2001 Cargo only:	Not applicable
Special Provisions:	Not applicable
Emergency response Group Code:	Not applicable

XV. Regulatory Information

UNITED STATES:

Toxic Substances Control Act (TSCA):

The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

Superfund Amendments and Reauthorization Act (SARA) Title III:Section 313 – Toxic Chemicals:

Zinc Oxide CAS# 1314-13-2

Safety Phrases:

Keep container tightly closed in a well ventilated area, away from sources of ignition. No smoking.

Do not breathe gas, fumes, vapor or spray from this product.

Do not empty into drains.

State Right-to-Know Regulations Status of Ingredients

Pennsylvania: No information

New Jersey: No information

Massachusetts: No information

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Hazard Category Classifications and Ratings

Hazard Categories:	Health	Fire	Pressure	Reactivity	
HMIS Hazard Ratings: Health 1	Fire 1	Instability 0	Other B (Goggles, gloves)		
NFPA 704 Hazard Ratings: Health 1	Flammability 1	Reactivity 0	Special NA		
Hazard Ratings: Least: 0	Slight: 1	Moderate: 2	High: 3	Extreme: 4	

XVI. Additional Information

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