

# MSDS Material Safety Data Sheet

## TC351 – ThermoGel - Tempguard (The Miracle Heat Shield)

Date Prepared: 01.01.2017

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### 1. Substance/preparation and company designation

Commercial product name: Tempguard

Manufacturer: Trendy Trading (Pty) Ltd

Emergency phone number: 087 751 3726

Physical Address: 37 Bloemendal Road  
Vogelfontein, Meyerton, 1963

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### 2. Product Description/Composition/Information on components

Heat resistant and heat -dissipating Gel/Paste. Containing the listing of substances/  
substance classes in Table 2.1 below.

Table 2.1

Composition*	CAS No.	TLV	Content*
Substances that give product its risk properties:(Read under"11. Health hazard / Information on toxicology" specific information on the relevant substances)			
Curable Silicons	-	Nat establ.	<10%
Sodium containing clay	1302-78-9	Not establ.	<20%
Colloidal Silica <sup>2</sup>	112945-52-5	Not establ.	<10%
Emulsifier	-	Not establ.	<5%
Organic pigment	61-73-4	Not establ.	<1%
Substances / substance group with risk properties:			

Water	-	-	Up to 90%
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### 3. Hazards Identification

(See also “11. Health hazard/Information on toxicology”)

**Inhalation** of the product, especially when dried or heated may irritate the respiratory pathways. Expected risk when handling the wet product at room temperature: Negligible.

**Eye contact** with the product may cause mechanical or chemical irritation.

**Skin Contact** with dry product may lead to irritation. Expected risk when handling the product at room temperature: Very low to zero

**Ingestion** of the product may lead to pain, nausea, vomiting and diarrhoea.

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### 4. First aid measures

These measures are based only on potential health hazards associated with the constituents of the product.

- After inhalation of any thermal decomposition products (in case fire):

Remove the victim to a well-ventilated area. Administer artificial respiration in case of irregular breathing or respiratory breakdown.

- After eye contact:

Immediately flush the contaminated eye/s with large amount of water, keeping eyelid/s open.

- After skin contact:

If any irritation should occur, wash the contaminated skin with plenty of water.

- After ingestion:

Rest victim and obtain medical attention. Treat symptomatically.

### 5. Fire fighting procedures

The product is specified by the manufacturer as non-combustible. Suitable extinguishing media are as appropriate for combustibles in the area.

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Agent: N/A

Lower Explosive Limit: N/A

Higher Explosive Limit: N/A

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## 6. Measures in case of accidental release

Remove/recollect mechanically, and wash away residues with large amount of water.

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## 7. Storage and handling

The product is stable under normal storage and handling conditions. No protection against fire and explosion should be necessary. The container should be stored well-sealed to prevent drying.

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## 8. Limitation of exposure and personal protective equipment

**Respiratory Protection:** Not normally required.

**Eye Protection:** Not normally required. Do avoid contact with eyes.

**Skin Protection:** Although contact of skin with product is not expected to cause negative effects, such contact should nevertheless be limited to the possible minimum. Wash exposed skin after use with plenty of water.

**Ingestion:** Do not eat or drink while using this product.

**Personal protective equipment:** Not normally required.

**Ventilation:** Not required.

The product itself is intended by the manufacturer as heat-protective equipment. Other protective equipment should still be worn, as required by the application/s for which the product is intended.

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## 9. Physical and chemical properties

<b>Appearance:</b>	Blue gel or emulsion
<b>Odour:</b>	None
<b>Boiling point:</b>	Not applicable
<b>Melting point:</b>	Not applicable
<b>Vapour density:</b>	As water
<b>Evaporation rate:</b>	Not tested
<b>Density (20°C):</b>	0.9-1.3g/cm <sup>3</sup> (gel)
<b>Vapour pressure (20°C):</b>	As water
<b>Solubility in water:</b>	High
<b>pH:</b>	8-9 (specified average: ca 8.6)
<b>Flash point:</b>	Not applicable
<b>Ignition temperature:</b>	Not applicable
<b>Lower explosion limit:</b>	Not applicable

## 10. Stability and reactivity

No known danger of explosion exists. The product is in a highly stable form.

Contact of the product with concentrated acids could liberate some heat and small amounts of gases.

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## 11. Health hazard / Information of toxicology

The product has a low to zero toxicity.

**Inhalation** of some or all of the hazardous substances listed under section 2 can lead to irritation of respiratory pathways, and in extreme cases, silicosis of the respiratory tissue. Given the product formulation (aqueous gel/emulsion), this risk is expected to be negligible when handling the product at a room temperature

(20 – 30°C)

**Eye contact** with some or all of the substances listed under section 2 can lead to mechanical and chemical irritation. A similar risk is expected for the formulated product.

**Skin contact** with some or all of the hazardous substances listed under section 2 can lead to irritation. Given the product formulation (aqueous gel/emulsion) this risk is expected to be very low.

**Ingestion** with some or all of the hazardous substances listed under section 2 can lead to pain, nausea, vomiting and diarrhoea. A similar risk is expected for the formulated product.

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## 12. Information on ecology

No data available

## 13. Disposal considerations

According to manufacturer specifications, used or spilt product may be washed away with water. However, it is the user's responsibility to determine the applicable legislative requirements for disposal applicable to their jurisdiction. No information on the effect of the product on sewerage systems is available, but impacts are expected to be low.

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## 14. Transport information

This material is not regulated as a Hazardous Material. Non Hazardous Transportation Requirements are applicable.

## **15.Regulatory Information**

Not regulated.

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## **16.Other information**

Not applicable

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While the information and recommendations set forth herein are believed to be accurate as of the date hereof this company makes no guarantee or warranty, express or implied, as to the accuracy, reliability, or completeness of the information. The health and safety impact of separate constituents have been considered, including a weighting according to their respective concentrations in the product. Cumulative effects of the sum of constituents, however, have not been consider. The document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.