



# Material Safety Data Sheet

Material Name: GoodTemp

Identity / Product Name: Goodtemp

## Section 1- Company Identification

Manufactured By: Howred Corporation	Emergency and Information Number 713-781-3980
7887 San Felipe, Suite 122	Date Prepared: October 1, 2002
Houston, TX 77063	

## Section 2 – Chemical Composition

CAS No	Component	Percent
93763-70-3	Expanded Perlite	50 – 95
1332-58-7	Clay	1 - 50
65997-17-3	Continuous filament glass fiber	0 - 3
1344-09-8	Sodium Silicate	1 - 40
1309-37-1	Iron Oxide	0 - 3
mixture	Silicone emulsion	0 - 10

## Section 3 – Hazards Identification

Under normal conditions of end use, the material does not pose a physical hazard or health risk. When altering the material by cutting, sawing, abrading or other, material may be released that can increase the risk of personnel exposure.

Rubber gloves are not normally required but may be worn to prevent possible skin irritation. Skin irritation can be treated by washing the affected area with warm water and soap.

Safety glasses and/or goggles should be worn to reduce the possibility of eye irritation. Eye irritation can be treated by washing with large amounts of warm water. If irritation persists, contact a qualified medical professional.

A NIOSH or MSA approved respirator may be used to protect against any nuisance dust or dust containing crystalline silica.

### Potential Health Effects:

- May cause skin and/or eye and/or respiratory irritation upon prolonged or repeated contact
- Eyes – Temporary irritation such as itching or redness may occur
- Skin – Temporary irritation such as itching and/or redness and/or dry skin may occur



## Material Safety Data Sheet

Material Name: GoodTemp

- Ingestion – This product is not intended to be ingested under normal use conditions. If ingested, it may cause temporary irritation to the stomach and intestines.
- Respiratory – Inhalation of excessive amounts of dust from the material may cause temporary upper respiratory irritation and/or congestion. Remove affected individuals to fresh air.
- This product may aggravate pre-existing medical conditions of the skin or eyes or upper respiratory and lung disease such as bronchitis, emphysema, asthma, or others.
- The primary routes of exposure are contact with the eyes, skin, and respiratory system.

This product may be regulated and/or have exposure limits or other information that are identified as Nuisance Particles.

This material may contain a very small quantity of crystalline silica (quartz). OSHA classifies perlite as “particulate not otherwise regulated” (PNOR) and concludes perlite is non toxic when airborne total particulate concentrations are maintained at levels of 15 mg/m<sup>3</sup> or below and when its quartz content is limited to a level less than 1% crystalline silica.

OSHA has established an 8 hour PEL of 15 mg/m<sup>3</sup> TWA for total perlite dust containing less than 1% quartz and has established a 5 mg/m<sup>3</sup> TWA PEL for the respirable fraction of perlite dust. OSHA has further concluded that these limits protect workers from significant risk of eye, skin, and other forms of physical irritation.

Crystalline silica (quartz) has been classified as a probable human carcinogen (Group 2A) by IARC of the World Health Organization. IARC determined there is sufficient evidence for carcinogenicity of quartz to experimental animals, and that there is limited evidence of carcinogenicity of quartz to humans.

The National Toxicology Program (NTP) has identified respirable quartz as a substance that is anticipated to be human carcinogen. Perlite has not been listed as a carcinogen by NTP or OSHA.

### Section 4 – First Aid Measures

Inhalation	Remove from dusty area, drink water to clear throat, blow nose to evacuate dust.
Skin	Wash affected area with warm water and soap
Ingestion	Get immediate medical advise, give several glasses of water or milk
Eyes	Do not rub or scratch eyes. Dust particles may scratch the eye. Flush with warm water for at least 15 minutes. If irritation persists, contact a qualified medical professional
Notes to	This product is a mechanical irritant, and is not expected to produce



# Material Safety Data Sheet

Material Name: GoodTemp

Physician	any chronic health effects from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary
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## Section 5 – Fire Fighting and Explosion Hazard Data

Flash Point: Not Applicable	Method Used: Not Applicable
Upper Flammable Limit: Not Applicable	Lower Flammable Limit: Not Applicable
Auto Ignition: Not Applicable	Flammability Classification: Not Applicable
Rate of Burning: Not Applicable	
<b>General Fire Hazards</b> – This material is noncombustible and will not burn. There is no potential for fire or explosion.	
<b>Extinguishing Media</b> – No special procedures are necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation or smoke and gases.	
<b>Fire Fighting Equipment and Instructions</b> - No special procedures are necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation or smoke and gases.	

## Section 6 - Accidental Release Measures

- Containment Procedures – Spilled material should not be walked on.
- Clean-Up Procedures – Vacuum or wet sweep. Avoid creating dust. Use a dust suppressant when sweeping. Waste is not hazardous as defined by the Resource Conservation and Recovery Act (RCRA, 40 CFR 261). Comply with state and local regulations for disposal of this material. Contact the local Health Department or the local office of the Environmental Protection Agency (EPA) if there are any questions about the disposal of this material.

## Section 7 – Handling and Storage

- Handling Procedures – Use protective equipment as described in Section 8 of this material safety data sheet when handling uncontained material
- Storage Procedures – Store in a dry area. Repair any broken or damaged containers. Close containers when not being used.

## Section 8 – Exposure Controls and Personal Protection

- Expanded Perlite (93763-70-3)
  - OSHA – Respirable fraction ;5mg/m3 TWA total dust:15 mg/m3
  - ACGIH – 10mg/m3 TWA This is the value for particulate matter containing no asbestos and <1% crystalline silica and are related to PNOC, particles not otherwise classified.
- Sodium Silicate (1344-09-8)



# Material Safety Data Sheet

Material Name: GoodTemp

- ACGIH – Inhalable particulate: 10 mg/m<sup>3</sup> TWA; Respirable particulate: 3 mg/m<sup>3</sup> TWA
- OSHA – Respirable fraction; 5 mg/m<sup>3</sup> TWA; total dust; 15 mg/m<sup>3</sup> TWA. Related to Particles Not Otherwise Regulated.
- Iron Oxide (1309-37-1)
  - ACGIH – 5 mg/m<sup>3</sup> TWA
  - OSHA – 10 mg/m<sup>3</sup> TWA
- Continuous filament glass fiber (65997-17-3)
  - ACGIH – 1 f/cc TWA for fibers longer than 5 um with a diameter less than 3 um; 5 mg/m<sup>3</sup> TWA inhalable particulate; (Listed under ‘Synthetic vitreous fibers’)
  - OSHA – 5 mg/m<sup>3</sup> TWA respirable fraction; 15 mg/m<sup>3</sup> TWA total dust

## Personal Protective Equipment

- Eyes and Face – Safety glasses with side shields are recommended to keep dust out of the eyes.
- Skin – Rubber gloves may be used to help prevent excessive skin contact.
- Respiratory – IF exposure levels exceed the OSHA PEL or ACGIH TLV limits, a NIOSH-MSHA approved respirator should be worn.
- Ventilation – General dilution ventilation should be provided as necessary to keep the particulate concentration below the allowable levels. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be completed by a registered professional engineer.

## Section 9 – Physical and Chemical Properties

Appearance	Pink	Odor	None
Physical State	Solid	PH	9 – 10.9
Vapor Pressure	Not Applicable	Vapor Density	Not Applicable
Boiling Point	Not Applicable	Melting Point	Not Determined
Solubility	Not Applicable	Specific Gravity	Not Applicable
Freezing Point	Not Applicable	Solids Content	Not Applicable
Evaporation Rate	Not Applicable	Viscosity	Not Applicable
Percent Volatile	0	VOC	Not Applicable

## Section 10 – Chemical Stability and Reactivity Information

Chemical Stability	This is stable material and it is nonreactive
Conditions to Avoid	Avoid contact with Hydrofluoric acid
Incompatibility	None
Hazardous Decomposition	None identified
Hazardous Polymerization	Not reactive, will not polymerize.



**Section 11 – Toxicological Information**

Acute and Chronic Toxicity

A: General Product Information

The primary acute health effects of this product include mechanical irritation of the lungs, skin and eyes and dryness of the skin as a result of contact with expanded perlite particles.

B: LD50/LC50 For Chemicals That May be Released During Use

Only water vapor is released during use

C: Component Analysis – LD50/LC50

No LD50/LC50's are available for this product's components.

Carcinogenicity:

A: General Product Information

The Occupational Safety and Health Administration (OSHA), the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), and the American Conference of Governmental Industrial Hygienists (ACGIH) have not classified this product in its entirety as a carcinogen.

B: Component Carcinogenicity

- Expanded Perlite (93763-70-3)
  - ACGIH: A4 – Not Classified as a Human Carcinogen
- Sodium Silicate (1344-09-8)
  - ACGIH – Inhalable particulate: 10 mg/m<sup>3</sup> TWA; Respirable particulate: 3 mg/m<sup>3</sup> TWA
  - OSHA – Respirable fraction; 5 mg/m<sup>3</sup> TWA; total dust; 15 mg/m<sup>3</sup> TWA. Related to Particles Not Otherwise Regulated.
- Continuous filament glass fiber (65997-17-3)
  - ACGIH – A4 – Not Classified as a Human Carcinogen (related to filament glass fibers)
  - IARC – Monograph 43, 1988, related to glass filaments, Group 3, not classified
- Crystalline silica, Quartz, (May be present as a contaminant) (14808-60-7)
  - ACGIH – A2 – Suspected Human Carcinogen
  - IARC – Monograph 68.1997, (Inhaled in the form of quartz or cristobalite from occupational sources) (Group 1, Carcinogenic to humans)
  - NTP – Known Carcinogen (Selected Carcinogen)

Chronic Toxicity

May cause skin irritation with prolonged or repeated contact.

This material may contain trace amounts of crystalline silica, quartz, as a natural contaminate in the raw materials. Crystalline silica is considered a hazard by inhalation. The International Agency for Research on Cancer (IARC) has classified crystalline silica as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Excessive



# Material Safety Data Sheet

Material Name: GoodTemp

exposure to respirable crystalline silica can cause silicosis, a non-cancerous lung disease. Crystalline silica has not been classified by the Occupational Safety and Health Administration (OSHA).

No chronic health affects are known to be associated with exposure to continuous filament fiber glass. Results from epidemiological studies have not shown any increases in respiratory disease or cancer. IARC has classified continuous filament fiber glass as a Group 3 substance, not classified as to its carcinogenicity to humans. Because fo the large diameter of continuous filament fibers, these fibers on not considered respirable.

## Section 12 – Ecological Information

### Ecotoxicity

#### A: General Product Information

No data available for this product. This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

#### B: Component Analysis – Ecotoxicity – Aquatic Toxicity

No data available for this product

## Section 13 – Disposal Considerations

### US EPA Waste Number and Descriptions

#### A: General Product Information

When discarded, this material is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under the Resource Conservation and Recovery (RCRA) regulations.

#### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this material’s components.

### Disposal Instructions

Dispose of waste material according to Local, State, and Federal and Provincial Environmental regulations.

## Section 14 – Transportation Information

### US DOT Information

Shipping Name	Not classified as a hazardous material for shipping
Hazard Class	Not Applicable
UJN/NA #	Not Applicable
Packing Group	Not Applicable
Required Label(s)	Not Applicable



**Section 15 – Regulatory Information**

US Federal Regulations

A: General Product Information

No information available for this material as a whole

B: Component Analysis

None of this material’s components are listed under SARA Section 302 (40 CFR 335 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4)

C: Clean Air Act

None of this material’s components are listed on the Clean Air Act-1990 Hazardous Air Pollutants List.

State Regulations

A: General Product Information

No information available for this material as a whole.

B: Component Analysis

None of this material’s components are listed by any State or Province hazardous substances lists.

Other Regulatory Information

A: General Product Information

No information is available for this material. This material and its components are listed on the TSCA 8(b) Inventory. None of the components listed in this material are listed on the TSCA Export Notification 12(b) list.

**B: Component Analysis – Inventory**

Component	CAS #	TSCA	DSL	EINECS
Expanded Perlite	93763-70-3	Yes	Yes	Yes
Sodium Silicate	1344-09-8	Yes	Yes	Yes
Glass Fiber	65997-17-3	Yes	Yes	Yes
Iron Oxide	1309-37-1	Yes	Yes	Yes
Clay	1332-58-7	Yes	Yes	Yes
Silicone emulsion	mixture	Yes	Yes	Yes



## Material Safety Data Sheet

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### Section 16 – Other Information

Prepared for:  
Howred Corporation  
7887 San Felipe, Ste 122  
Houston, TX 77063

This MSDS replaces the previous document dated April 2000.

The information presented in this MSDS is presented in good faith and believed to be accurate as of the issue date. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State, Provincial, and Local laws.

This is the end of MSDS #HC1