

## SAFETY DATA SHEET

### THERMATEK® HT

Revision Date: 26-Aug-2013

Revision Number: 14

#### 1. Product and Company Identification

**Product Name**

**Product Trade Name:** THERMATEK® HT

**Other Names**

**Synonyms:** None

**Product Code:** HM005266

**Recommended Use**

**Recommended Use**

Additive

**Uses Advised Against** No information available

**Company Name, Address and Contact Details**

**Manufacturer/Supplier** Halliburton New Zealand  
1 Paraite Rd,  
Bell Block, New Plymouth  
New Zealand Registration No.: 824207

**E-Mail address:** fdunexchem@halliburton.com

**Emergency Telephone Number** +64-6-7559274

**New Zealand National Poisons Centre** 0800 764 766 (24 hours)

#### 2. Hazard(s) Identification

**Statement of Hazardous Nature**

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulation 2001;  
Not Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

**Classification**

8.2C Corrosive to dermal tissue if exposed for greater than 1 hour

8.3A Corrosive to ocular tissue

9.1D Slightly harmful in the aquatic environment

**Hazard and Precautionary Statements**

**Hazard Pictograms**



**Signal Word**

Danger

**Hazard Statements**

H314 - Causes severe skin burns and eye damage  
 H318 - Causes serious eye damage  
 H402 - Harmful to aquatic life

**Precautionary Statements****Prevention**

P101 - If medical advice is needed, have product container or label at hand  
 P102 - Keep out of reach of children  
 P103 - Read label before use  
 P104 - Read Safety Data Sheet before use  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P280 - Wear protective gloves/eye protection/face protection

**Response**

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P363 - Wash contaminated clothing before reuse  
 P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
 P310 - Immediately call a POISON CENTER or doctor/physician  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**Storage**

P405 - Store locked up

**Disposal**

P501 - Dispose of contents/container to an approved landfill

**Contains**

Substances	CAS Number	Substance HSNO Classification
Magnesium oxide	1309-48-4	6.1E (oral) 6.4A
Calcium oxide	1305-78-8	8.2C 8.3A 9.1D (Fish)

**Other Hazards**

None known

### 3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Magnesium oxide	1309-48-4	60 - 100%
Calcium oxide	1305-78-8	1 - 5%

### 4. First-Aid Measures

**Requirements for First Aid or Medical Care****Inhalation**

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

**Eyes**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**Skin**

Wash with soap and water. Get medical attention if irritation persists.

**Ingestion**

Under normal conditions, first aid procedures are not required.

**Workplace Facilities Required**

None

**Relation to Health Effect****Most Important Symptoms/Effects**

May cause eye and skin burns.

**Medical Attention and Special Treatment****Notes to Physician**

Treat symptomatically

**5. Fire-Fighting Measures****Type of Hazard****Flammability Hazard**

Non-flammable

**Extinguishing media****Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

**Extinguishing media which must not be used for safety reasons**

None known.

**HAZCHEM Code****Hazchem Code:**

None Allocated

**Special Protective Equipment and Precautions for Fire Fighters****Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

**Special Exposure Hazards**

Not applicable.

**6. Spillage, Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment.

See Section 12 for additional information

**Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

**Methods and material for containment and cleaning up**

Scoop up and remove.

**Reference to other sections**

See Section 12 for additional information.

**7. Handling and Storage****Precautions for Safe Handling****Handling Precautions**

Avoid creating or inhaling dust. Avoid contact with eyes, skin, or clothing. Wash hands after use.

**Handling Practices****Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**Approved Handlers**

This product does NOT require an approved handler.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry location. Keep container closed when not in use. Store locked up. Product has a shelf life of 24 months.

**Store Site Requirements**

No special controls required

**Packaging**

No special packaging required

## 8. Exposure Controls and Personal Protection

**Workplace Exposure Standards****Exposure Limits**

Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA
Magnesium oxide	1309-48-4	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Calcium oxide	1305-78-8	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>

**Engineering Controls****Engineering Controls**

A well ventilated area to control dust levels.

**Personal Protective Equipment (PPE)****Respiratory Protection**

Not normally necessary.

However, if significant exposures are likely then wear a Dust/mist respirator. (N95, P2/P3)

**Hand Protection**

Normal work gloves.

**Skin Protection**

Not normally necessary.

**Eye Protection**

Wear safety glasses or goggles to protect against exposure.

**Other Precautions**

None known.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties****Physical State:** Solid**Color:** White**Odor:** Odorless**Odor Threshold:** No information availablePropertyValuesRemarks/ - Method**pH:**

10.3

**Freezing Point/Range**

2852 °C

**Melting Point/Range**

No data available

**Boiling Point/Range**

No data available

**Flash Point**

No data available

**Evaporation rate**

No data available

**Vapor Pressure**

No data available

**Vapor Density**

No data available

**Specific Gravity**

3.6

**Water Solubility**

Slightly soluble

**Solubility in other solvents**

No data available

**Partition coefficient: n-octanol/water**

No data available

**Autoignition Temperature**

No data available

**Decomposition Temperature**

No data available

**Viscosity**

No data available

**Explosive Properties**

No information available

**Oxidizing Properties**

No information available

**Other information****VOC Content (%)**

No data available

## 10. Stability and Reactivity

**Chemical Stability**

Stable

**Conditions to Avoid**

None anticipated

**Incompatible Materials**

Strong acids. Avoid halogens. Prolonged contact with aluminum.

**Hazardous Decomposition Products**

Metal oxides.

**Hazardous Reactions**

**Hazardous Polymerization:** Will Not Occur

<b>11. Toxicological Information</b>
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**Health Effect from Likely Routes of Exposure****Acute Toxicity****Product Information**

Under certain conditions of use, some of the product ingredients may cause the following:

**Inhalation**

May cause mild respiratory irritation. May cause allergic respiratory reaction. May cause Metal Fume Fever (if heated) which is characterized by chills, fever, aching muscles, dryness and metal taste in mouth and throat, headaches, sneezing, nausea, and irritation of the nose and trachea.

**Eye Contact**

May cause severe eye irritation.

**Skin Contact**

May cause moderate skin irritation.

**Ingestion**

Large doses may cause nausea, vomiting and diarrhea.

**Chronic Effects/Carcinogenicity**

No data available to indicate product or components present at greater than 1% are chronic health hazards.

**Toxicity Data****Toxicology data for the components**

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Magnesium oxide	1309-48-4	3870 mg/kg	No data available	No data available
Calcium oxide	1305-78-8	500 mg/kg ( Rat )	No data available	No data available

<b>12. Ecological Information</b>
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**Toxicity****Ecotoxicity Effects****Product Ecotoxicity Data**

No data available

**Substance Ecotoxicity Data**

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Magnesium oxide	1309-48-4	No information available	No information available	No information available	TLM96: 665,500 ppm (Mysidopsis bahia)
Calcium oxide	1305-78-8	No information available	LC50: 1070 mg/L (Cyprinus carpio) LC50: 33.884 mg/L (Clarias gariepinus)	No information available	No information available

**Persistence and degradability**

The methods for determining biodegradability are not applicable to inorganic substances.

**Bioaccumulative potential**

No information available

**Mobility in soil**

No information available

**Ecotoxicity Hazard Statements**

Slightly harmful in the aquatic environment.

**Other adverse effects****Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

**13. Disposal Considerations****Waste treatment methods****Disposal Method****Contaminated Packaging**

Bury in a licensed landfill according to federal, state, and local regulations. Follow all applicable national or local regulations. Contaminated packaging may be disposed of by: rendering packaging incapable of containing any substance, or treating packaging to remove residual contents, or treating packaging to make sure the residual contents are no longer hazardous, or by disposing of packaging into commercial waste collection.

**14. Transport Information****IMDG/IMO**

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable

**NZ 5433.1999**

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable

**IATA/ICAO**

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable

**Special Precautions for User** None

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

**15. Regulatory Information****New Zealand Inventory of Chemicals**

All components listed on inventory or are exempt.

**HSNO Approval Number**

HSR002491

**Group Name**

Additives, Process Chemicals and Raw Materials (Corrosive HSR002491)

**HSNO Controls**Refer to the NZ EPA website for more information: <http://www.epa.govt.nz>**Approved Handlers**

Not Applicable

**Poisons Schedule:**

None Allocated

**16. Other Information**

**The following sections have been revised since the last issue of this SDS**

Not applicable

**Additional Information**

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Compliance at 1-580-251-4335.

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

NZ CCID

National Toxicology Program (NTP)

IUCLID

CDC/NIOSH

**Revision Date:**

26-Aug-2013

**Revision Note**

Not applicable

**Disclaimer Statement**

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**End of Safety Data Sheet**