

# Safety Data Sheet

According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP)

Printing Date: 4/22/2015

Revision: 4/22/2015

## Trade Name: HERMETIC™ 4.8S Urethane – Thermal Shock Resistant Slurry - Part A

### 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade Name: HERMETIC™ 4.8S Urethane – Thermal Shock Resistance Slurry - Part A

#### 1.2 Article No.: HERMETIC™ 4.8S Urethane – Part A

#### 1.3 Details of the supplier of the Safety Data Sheet Manufacturer:

Elite Crete Systems  
 1151 Transport Drive  
 Valparaiso, IN 46383  
 Toll Free: 888.323.4445  
 Tel: (219) 465-7671  
 Fax: (219) 531-0898  
[www.elitecrete.com](http://www.elitecrete.com)

#### 1.4 Emergency telephone number:

CHEMTREC US DOMESTIC: (800-424-9300)  
 CHEMTREC INTERNATIONAL: (703-527-3887)

### 2 Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 and GHS:**

These precautionary statements are not prescribed by directive 1272/2008 as this product is not classified as hazardous under this directive. Wash hands thoroughly after handling with soap and water. Wear protective gloves. Protective clothing, eye protection and face protection. If swallowed or gets in eyes or on skin, or inhaled call a POISON CENTER or doctor/physician if you feel unwell. If inhaled, remove victim to fresh air and keep at rest in a comfortable position for breathing. Take off contaminated clothing and wash before reuse. Store in a well ventilated place. Keep container tightly closed.

#### 2.2 Label elements

**Labeling according to Regulation (EC) No 1272/2008:**

**Hazard pictograms:**

**None required under this directive as it is not hazardous**

**Signal word:** none required under this directive

**Hazard Statements:**

H302: Harmful if swallowed

**Precautionary Statements:**

Prevention: P264: Wash hands thoroughly after handling  
 P270: Do not eat, drink or smoke when using this product

Response: P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310+P330: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Disposal: P501: Disposal of contents/container to be specified in accordance with State, Federal and Local regulations.

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**Hazards not classified:** Wash hands thoroughly after handling with soap and water. Wear protective gloves. Protective clothing, eye protection and face protection. If swallowed or gets in eyes or on skin, or inhaled call a POISON CENTER or doctor/physician if you feel unwell. If inhaled, remove victim to fresh air and keep at rest in a comfortable position for breathing. Take off contaminated clothing and wash before reuse. Store in a well ventilated place. Keep container tightly closed.

### Hazard description:

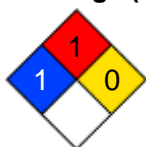
#### Canadian WHMIS Classification:

non corrosive, non hazardous

#### WHMIS-symbols:

None required

#### NFPA ratings (scale 0 – 4)



Health = 1  
Fire = 1  
Reactivity = 0

#### HMIS-ratings (scale 0 – 4)

Health	1
Fire	1
Reactivity	0

Health = 1  
Fire = 1  
Reactivity = 0

### 2.3 Other hazards

No known

## 3 Composition/information on ingredients

### 3.2 Mixture.

**Description:** Mixture of substances listed below with nonhazardous additives.

#### Hazardous components:

Identification #	Description	WT. %
CAS: 8001-79-4 EINECS: 232-293-8	<b>Castor oil</b> GHS Classification: Not hazardous	50-69%
CAS: 7732-18-5 EINECS:	<b>Water</b> GHS Classification Not Hazardous	12-21%
CAS: # priority	<b>Benzoate Esters</b>	10-28%

**Additional information:** WHMIS Ingredient Disclosure List.

none

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### 4 First aid measures

#### 4.1 Description of first aid measures

##### After inhalation:

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

##### After skin contact:

Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

##### After eye contact:

If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.

##### After swallowing:

If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

#### 4.2 Most important symptoms and effects, both acute and delayed.

**Acute:** This material may cause irritation to the respiratory tract and skin and even burns. Product may cause an allergic skin reaction.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis.

**Hazards:** Pre-existing skin or respiratory system problems may be aggravated by exposure to this product.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptoms and reduce over-exposure.

### 5 Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents:

Carbon dioxide, foam, dry chemical, halon, water spray, sand, limestone powder.

#### 5.2 Special hazards arising from the substance or mixture:

Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gas. Burning produces toxic and noxious fumes. Down wind personnel must be evacuated.

#### 5.3 Advice for firefighters:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

### 6 Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Personnel should be trained for spill response operations.

**6.2 Environmental precautions:** All work practices must be aimed at eliminating environmental contamination.

**6.3 Methods and material for containment and cleaning up:** Contain spill if safe to do so. Prevent entry into drains, sewers, and other waterways. Soak up with a non-combustible absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

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### 7 Handling and storage

#### 7.1 Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Storage:

##### Requirements to be met by storerooms and receptacles:

. Do not store near acids.. keep containers tightly closed in a cool dry and well ventilated place.

**7.3 Specific end use(s):** keep from freezing.

### 8 Exposure controls/personal protection

#### Additional information about design of technical facilities:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

#### 8.1 Control parameters

##### Ingredients with limit values that require monitoring at the workplace:

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

#### 8.2 Exposure controls

##### Personal protective equipment:

##### General protective and hygienic measures:

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**Respiratory protection:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**Protection of hands:** Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.



Protective gloves

##### Material of gloves:

The selection of suitable gloves does not only depend on the material, but also on the quality, and varies from manufacturer to manufacturer.

**Eye protection:** Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.



Safety goggles

##### Body Protection:

Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

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**Trade Name: HERMETIC™ 4.8S Urethane – Thermal Shock Resistant Slurry - Part A**

### 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

**Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Various colors
<b>Odor:</b>	Slight
<b>Odor threshold:</b>	N/A

**pH-value:**

**Change in condition**

<b>Melting point/Melting range:</b>	No data available
<b>Boiling point/Boiling range:</b>	212°F (100°C)

**Flash point:** N/A

**Flammability (solid, gaseous):** No data available

**Auto/Self-ignition temperature:** Not established

**Decomposition temperature:** No data available

**Self-igniting:** No data available

**Danger of explosion:** N/A

**Explosion limits**

<b>Lower:</b>	Not established
<b>Upper:</b>	Not established

**Vapor pressure at 20 °C:** No data available

**Density at 20°C:** 8.2 lbs. per gallon @ 70°F (21°C)

**Relative density:** No data available

**Vapor density:** No data available

**Evaporation rate:** No data available

**Solubility in / Miscibility with Water:** Not Available

**Specific Gravity 20oC: (Water = 1):** 0.984

**Viscosity:**

100 cps (100mPa) @ 73°F (23°C)

**Solvent content:**

<b>Organic solvents:</b>	0
<b>VOC (EC)</b>	0.00%

**9.2 Other information** No data available

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#### 10 Stability and reactivity

##### 10.1 Reactivity

##### 10.2 Chemical stability: Product is stable

**Thermal decomposition / conditions to be avoided:** When heated to decomposition this product produces noxious gases such as CO, CO<sub>2</sub>, NO<sub>x</sub>, amines, ammonia and others.

##### 10.3 Possibility of hazardous reactions: No data available

##### 10.4 Conditions to avoid: no data

##### 10.5 Incompatible materials: organic acids, citric acid, acetic acid, etc

##### 10.6 Hazardous decomposition products: Nitric acid, Ammonia, Nitrogen oxides (NO<sub>x</sub>), Nitrogen oxide can react with water vapors to form corrosive nitric acid.

#### 11 Toxicological information

##### 11.1 Information on toxicological effects: Toxicity data is available for this product

##### Acute toxicity:

Acute Dermal	LD 50	>2,000 mg/kg	Rabbit
Acute Oral	LD 50	>2,000 mg/kg	Rat

**Primary irritant effect:** Contact with this product can be irritating to exposed skin, eyes and respiratory system.

**Sensitization:** This product is considered a skin sensitizer.

##### Additional toxicological information:

None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**Reproductive toxicity information:** No information concerning the effects of this product and its components on the human reproduction system.

#### 12 Ecological information

##### 12.1 Toxicity

**Aquatic toxicity:** No data available

##### 12.2 Persistence and degradability: No data available

##### 12.3 Bioaccumulative potential: No data available

##### 12.4 Mobility in soil: No evidence is currently available on this product's effects on plants or animals.

##### Ecotoxicological effects:

##### Remark:

**Additional ecological information:** No data available

##### General notes:

##### Component Information:

no other information available

#### 13 Disposal considerations

##### 13.1 Waste treatment methods

##### Recommendations:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

**RCRA WASTE CODE:** D002

**EU WASTE CODE:** To Be Established

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#### 14 Transport information

##### 14.1 UN-Number

DOT: CAN: ADR: ADN: IMDG: IATA: NOT REGULATED

##### 14.2 UN proper shipping name

ADR: DOT: CAN: ADR: ADN: IMDG: IATA: NOT REGULATED

##### 14.3 Transport hazard class(es)

DOT: CAN: ADR: ADN: IMDG: IATA:

Class:

Label:

NOT REGULATED

##### 14.4 Packing group

DOT: CAN: ADR: ADN: IMDG: IATA: NOT REGULATED

##### 14.5 Environmental hazards:

Marine pollutant:

NOT REGULATED

##### 14.6 Special precautions for user

Danger code (Kemler):

EMS Number:

No data available

##### 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code:

No data available

##### Transport/Additional information

ADR

Limited Quantities (LQ)

Excepted Quantities (EQ)

No data available

Transport Category:

Tunnel restriction code:

UN "Model Regulation":

No data available

#### 15 Regulatory information

##### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. United States (USA)

**SARA:** This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.: None

**Section 355 (extremely hazardous substances):** None of the ingredients are listed.

**Section 313 (Toxic Release Inventory):** None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):** All ingredients are listed.

##### Proposition 65 (California):

##### Chemicals known to cause cancer:

None of the ingredients is listed.

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#### Canada

##### Canadian Domestic Substances List (DSL):

All ingredients are listed

##### Canadian Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

##### Canadian Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

WHMIS Ingredient Disclosure List.

**WHIMS Trade Secret Registry Number(s) 6160 Grant date 2/14/2007**

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Hazard Statements:

H302: Harmful if swallowed

H318: Causes serious eye damage

#### Precautionary Statements:

Prevention: P264: Wash hands thoroughly after handling  
P270: Do not eat, drink or smoke when using this product

Response: P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310+P330: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Disposal: P501: Disposal of contents/container to be specified in accordance with State, Federal and

#### Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation.

IATA: International Air Transport Association.

ACGIH: American Conference of Governmental Industrial Hygienists.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

NFPA: National Fire Protection Association (USA).

HMIS: Hazardous Materials Identification System (USA).

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent.