



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

1.1. Product identifier		
Trade name or designation of the mixture	GREENTHERM 28 LI	
Registration number	-	
Synonyms	None.	
Brand Code	0253	
Issue date	17-October-2016	
Version number	01	
1.2. Relevant identified uses of	of the substance or mixture and	l uses advised against
Identified uses	For Industrial Use Only	
Uses advised against	Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.	
1.3. Details of the supplier of	the safety data sheet	
Supplier		
Company name	HarbisonWalker International	
Address	1305 Cherrington Parkway, Suite Moon Township, PA 15108, USA	
Division	United States	
Division		
Telephone	General Phone: CHEMTREC 24 HOUR EMERGENCY #	412-375-6600 1-800-424-9300
	INTERNATIONAL #	1-703-527-3887
e-mail	REACH@thinkHWI.com	
Contact person	HWI USA	
1.4. Emergency telephone number	Not available.	

# SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This item is defined as an article per OSHA and REACH and is therefore exempt from labeling. A Safety Data Sheet is available This item is not Classified as hazardous per CLP Regulations. However, individual customer processes (such as grinding, sawing, o blasting) may result in the formation of dust that may present health hazards. Limit skin contact. Wash hands after handling. Wear protective gloves/protective clothing/eye protection.

#### Classification according to Regulation (EC) No 1272/2008 as amended

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### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

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### 2.3. Other hazards None known.

# SECTION 3: Composition/information on ingredients

# 3.2. Mixtures

# **General information**

Aluminium Oxide (Non-Fil	hrous)	60					
	bious)	60 - <	70	1344-28-1 215-691-6	01-2119529248-35-0134	-	
Classification:	DSD:	-					
	CLP:	-					
Amorphous silica		30 - <	40	7631-86-9 231-545-4	-	-	
Classification:	DSD:	-					
	CLP:	-					
Calcium oxide		1 - <	3	1305-78-8 215-138-9	-	-	
Classification:	DSD:	-					
	CLP:	Skin Corr. 1;	H314	ł, Eye Dam. 1;H31	8		

- M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

### **SECTION 4: First aid measures**

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.1. Description of first aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
4.2. Most important symptoms and effects, both acute and delayed	Direct contact with eyes may cause temporary irritation.
4.3. Indication of any immediate medical attention	Treat symptomatically.

## **SECTION 5: Firefighting measures**

and special treatment

needed

General fire hazards	Not available.
5.1. Extinguishing media Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not available.
5.2. Special hazards arising from the substance or mixture	Not available.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Not available.
Special fire fighting procedures	Not available.

# **SECTION 6: Accidental release measures**

6.1. Personal precautions, prot	ective equipment and emergency procedures
For non-emergency personnel	Keep unnecessary personnel away. For personal protection, see section 8.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water.
6.4. Reference to other sections	Not available.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling	Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not breathe dust.
7.2. Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Not available.

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

### **Occupational exposure limits**

France. Threshold Limit Valu	es (VLEP) for Occupational E	xposure to Chemicals in France, INRS ED 984
Components	Туре	Value

components	туре	value	
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	VME	10 mg/m3	
Calcium oxide (CAS 1305-78-8)	VME	2 mg/m3	
Titanium dioxide (CAS 13463-67-7)	VME	10 mg/m3	
<b>Biological limit values</b>	No biological exposure limits noted	for the ingredient(s).	
Recommended monitoring procedures	Follow standard monitoring procedu	ires.	
Derived no-effect level (DNEL)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
Exposure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.		
8.2. Exposure controls			
Appropriate engineering controls	be matched to conditions. If applicate engineering controls to maintain air	0 air changes per hour) should be used. Ventilation rates should ble, use process enclosures, local exhaust ventilation, or other borne levels below recommended exposure limits. If exposure aintain airborne levels to an acceptable level.	
Individual protection measur	es, such as personal protective eq	uipment	
General information	Personal protection equipment shou with the supplier of the personal pro-	Id be chosen according to the CEN standards and in discussion otective equipment.	
Eye/face protection	Wear safety glasses with side shield	ls (or goggles).	
Skin protection			
- Hand protection	Wear appropriate chemical resistant	t gloves.	
- Other	Wear suitable protective clothing.		
Respiratory protection	Use a NIOSH/MSHA approved respi exceeding the exposure limits.	rator if there is a risk of exposure to dust/fume at levels	
Thermal hazards	Wear appropriate thermal protective	e clothing, when necessary.	



Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Environmental manager must be informed of all major releases.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance

Physical state	Solid.
Form	Solid.Brick or Cast Shape
Colour	White.
Odour	Not available.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or ex	cplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	No relevant additional information available.

# **SECTION 10: Stability and reactivity**

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Ammonia. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

# **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of	f exposure
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.
11.1. Information on toxicolog	jical effects
Acute toxicity	No data available.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk" (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.
Other information	Not available.
SECTION 12: Ecological i	information
12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not available.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Residual waste	Not available.
Contaminated packaging	Not available.
EU waste code	Not available.

# **SECTION 14: Transport information**

### ADR

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

#### ADN

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

14.7. Transport in bulkNot applicable.according to Annex II ofMARPOL 73/78 and the IBCCodeCode

### Code

## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### **EU** regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1** Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2** Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V Not listed.

### Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

### **Restrictions on use**

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use Not regulated.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

#### Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

### Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances Not listed.

Directive 98/24/EC on th agents at work	e protection of the health and safety of workers from the risks related to chemical
Not listed.	
Directive 94/33/EC on th	e protection of young people at work
Not listed.	
Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws
National regulations	Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
SECTION 16: Other information	
References	Not available.
Information on evaluation method leading to the classification of mixture	Not available.

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

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

None.

Not available.

contractual relationship.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

**Revision information** 

**Training information** 

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