

**THORITE® GENERAL PURPOSE CONCRETE RESTORATION**

Version 1.3

03/31/2005

**1. PRODUCT AND COMPANY INFORMATION**

Company : **Degussa Building Systems**  
 889 Valley Park Drive  
 Shakopee, MN 55379

Telephone : 952-496-6000

Emergency telephone number : (800) 424-9300  
 (703) 527-3887 (Outside Continental US)

Product name : THORITE® GENERAL PURPOSE CONCRETE RESTORATION

MSDS ID No. : 10188

TSCA Inventory : All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL : All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

Product Use Description : Mortar

**2. HAZARDOUS INGREDIENTS**

<u>Chemical</u>	<u>CAS No.</u>	<u>TLV</u>	<u>STEL</u>	<u>PEL</u>	<u>CEIL</u>	<u>Weight %</u>
SILICA, CRYSTALLINE QUARTZ	14808-60-7	0.05 mg/m3	N.E.	0.1 mg/m3	N.E.	40.00 - 70.00 %
PORTLAND CEMENT	65997-15-1	10 mg/m3	N.E.	5 mg/m3	N.E.	10.00 - 30.00 %
ALUMINA CEMENT	65997-16-2	N.E.	N.E.	N.E.	N.E.	10.00 - 30.00 %
LIMESTONE	1317-65-3	5 mg/m3	N.E.	5 mg/m3	N.E.	1.00 - 5.00 %
GYPSUM	13397-24-5	5 mg/m3	N.E.	5 mg/m3	N.E.	1.00 - 5.00 %

**3. HAZARDS IDENTIFICATION**

HMIS® Rating : HEALTH 2\* FLAMMABILITY 0 PHYSICAL HAZARD 1

WHMIS Class : D2B  
E

Primary Routes of Entry : Ingestion  
 Inhalation  
 Eye contact  
 Skin contact

**Effects of Overexposure**

Inhalation : Inhalation of dust can cause coughing and labored breathing and possible temporary but reversible irritation on mucous membranes and respiratory tract.

Skin : Can cause slight to moderate irritation due to abrasive action. In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.

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- Eyes : Can cause severe irritation, redness, tearing and blurred vision. Prolonged or repeated contact can cause burns and possibly corneal injury.
- Ingestion : Irritating to mouth, throat and stomach.
- Chronic exposure : This product contains Crystalline (quartz) Silica which has been listed as a human carcinogen by NTP (Group 1) and IARC (Human Carcinogen) and a Suspected Human Carcinogen by ACGIH (category A2). Repeated or prolonged over exposure to free respirable Crystalline (quartz) silica can cause silicosis or other delayed and serious lung injury. Repeated or prolonged overexposure to free respirable silica can cause silicosis or other delayed and serious lung injury.

**Carcinogenicity**

	ACGIH	IARC	NTP	OSHA
SILICA, CRYSTALLINE QUARTZ	Suspected human carcinogen.	Human carcinogen.	Known carcinogen.	N.E.
PORTLAND CEMENT	N.E.	N.E.	N.E.	N.E.
ALUMINA CEMENT	N.E.	N.E.	N.E.	N.E.
LIMESTONE	N.E.	N.E.	N.E.	N.E.
GYPSUM	N.E.	N.E.	N.E.	N.E.

**4. FIRST AID MEASURES**

- Eye contact : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Seek medical advice.
- Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. Call a physician immediately. Never give anything by mouth to an unconscious person. If a person vomits, place him/her in the recovery position.
- Inhalation : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

**5. FIRE-FIGHTING MEASURES**

- Flash point : Not combustible.
- Autoignition temperature : Not combustible.
- Lower explosion limit : not applicable
- Upper explosion limit : not applicable
- Suitable extinguishing media : water fog  
carbon dioxide (CO2)  
dry chemical  
alcohol-resistant foam
- Fire and Explosion Hazards : This product is alkaline and releases considerable heat on contact with small amounts of water. Avoid contact between resulting hot alkaline paste and metallic aluminum. Such contact could generate hydrogen gas.
- Special Fire-fighting Procedures : As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH

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approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

Methods for cleaning up : Clean up promptly by sweeping or vacuum. Clean thoroughly. After cleaning, flush away traces with water. Keep in suitable, closed containers for disposal. Wear personal protective equipment (refer to section 8).

**7. HANDLING AND STORAGE**

Handling : Use only in area provided with appropriate ventilation. Keep out of reach of children. Avoid exceeding of the given occupational exposure limits (see section 2). Avoid formation of respirable particles.

Storage : Keep container tightly closed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Eye protection : Wear as appropriate:  
safety glasses with side-shields  
face-shield  
goggles

Hand protection : Wear as appropriate:  
impervious gloves

Body Protection : Wear as appropriate:  
preventive skin protection  
impervious clothing

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use NIOSH approved respirators.

Hygienic Practices : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

Engineering Controls : Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Color : gray

Physical State : powder

Odor : none

pH (at 100 %) : not applicable

Odor Threshold : no data available

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Vapor Pressure : not applicable  
 Vapor Density : not applicable  
 Boiling point/range : no data available  
 Freeze Point : no data available  
 Water solubility : slightly soluble  
 Specific Gravity : 2.2  
 Viscosity : no data available  
 Evaporation rate : no data available  
 Partition coefficient (n-octanol/water) : no data available  
 VOC Concentration as applied (less water and exempt solvents) : 0 g/l

**10. STABILITY AND REACTIVITY**

Stability : Stable under recommended storage conditions.  
 Conditions to avoid : no data available  
 Materials to avoid : strong acids and strong bases  
 strong oxidizing agents  
 Hazardous decomposition products : no data available  
 Hazardous polymerization : Will not occur under normal conditions.

**11. TOXICOLOGICAL INFORMATION**

**Acute inhalation toxicity**

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>	<u>Exposure time</u>
<u>Component</u>	LC50	no data available		
SILICA, CRYSTALLINE QUARTZ	LC50	no data available		
PORTLAND CEMENT	LC50	no data available		
ALUMINA CEMENT	LC50	no data available		
LIMESTONE	LC50	no data available		
GYP SUM	LC50	no data available		

**Acute oral toxicity**

<u>Type</u>	<u>Value</u>	<u>Species</u>
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<u>Product</u>	LD50 (Oral)	no data available	
<u>Component</u>			
SILICA, CRYSTALLINE QUARTZ	LD50 (Oral)	1,300 mg/kg	
PORTLAND CEMENT	LD50 (Oral)	2,000 mg/kg	
ALUMINA CEMENT	LD50 (Oral)	2,255 mg/kg	
LIMESTONE	LD50 (Oral)	6,450 mg/kg	rat
GYPSUM	LD50 (Oral)	no data available	

**Acute dermal toxicity**

	<u>Type</u>	<u>Value</u>	<u>Species</u>
<u>Product</u>	LD50 (Dermal)	no data available	
<u>Component</u>			
SILICA, CRYSTALLINE QUARTZ	LD50 (Dermal)	no data available	
PORTLAND CEMENT	LD50 (Dermal)	no data available	
ALUMINA CEMENT	LD50 (Dermal)	no data available	
LIMESTONE	LD50 (Dermal)	no data available	
GYPSUM	LD50 (Dermal)	8,480 mg/kg	

**12. ECOLOGICAL INFORMATION**

Ecotoxicological Information : There is no data available for this product.

**13. DISPOSAL CONSIDERATIONS**

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

**14. TRANSPORT INFORMATION**

DOT : Proper shipping name Not regulated  
IATA : Proper shipping name Not regulated

**15. REGULATORY INFORMATION**

**SARA 311/312 (RTK)**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE (ACUTE) HEALTH HAZARD DELAYED (CHRONIC) HEALTH HAZARD

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**SARA 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>Weight %</u>	<u>CAS No.</u>	<u>Chemical Name</u>
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This product contains no chemicals subject to the SARA 313 supplier notification requirements.

**CERCLA**

CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

<u>RQ</u>	<u>CAS No.</u>	<u>Chemical Name</u>
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No CERCLA chemicals exist in this product above reportable concentrations.

**TSCA Section 12(b) Export Notification**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

<u>CAS No.</u>	<u>Chemical Name</u>
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There are no TSCA 12(b) Chemicals in this product.

**California Proposition 65**

The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

<u>CAS No.</u>	<u>Chemical Name</u>
14808-60-7	SILICA, CRYSTALLINE QUARTZ
554-13-2	LITHIUM CARBONATE
7439-92-1	INORGANIC LEAD
7440-43-9	CADMIUM
7440-38-2	ARSENIC
7439-97-6	MERCURY
7440-02-0	NICKEL

**16. OTHER INFORMATION**

Legend	:	N.E. - Not Established TLV - Threshold Limit Value STEL - Short Term Exposure Limit PEL - Permissible Exposure Limit CEIL - Ceiling
Prepared By	:	Environment, Health and Safety Department

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risk in its use of the Material.

End of MSDS.