

LAPIDOLITH®

Version 2.1

01/20/2004

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	:	LAPIDOLITH®
MSDS ID No.	:	10118
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	:	Coating

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>
MAGNESIUM SILICOFLUORIDE	18972-56-0	0.2 mg/m3	3 mg/m3	N.E.	N.E.	10.00 - 30.00 %
SULFURIC ACID	7664-93-9	1 mg/m3	3 mg/m3	1 mg/m3	N.E.	0.10 - 1.00 %

3. HAZARDS IDENTIFICATION

HMIS® Rating	HEALTH	FLAMMABILITY	REACTIVITY
	2	0	0

WHMIS Class	:	D2B
Primary Routes of Entry	:	Eye contact Skin contact

Effects of Overexposure

Inhalation	:	Harmful by inhalation.
Skin	:	Can cause severe irritation and possible burns.
Eyes	:	Corrosive. Can cause severe irritation, redness, tearing and blurred vision and possible burns and corneal injury.
Ingestion	:	Corrosive. May be harmful if swallowed. Intake can cause burns of mouth, esophagus and stomach. Gastrointestinal burns, nausea, vomiting and diarrhea.
Chronic exposure	:	Existing respiratory or skin ailments may be aggravated by exposure.

Carcinogenicity

ACGIH	IARC	NTP	OSHA
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MAGNESIUM SILICOFLUORIDE	N.E.	N.E.	N.E.	N.E.
SULFURIC ACID	Suspected human carcinogen.	Sufficient data.		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 : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
- Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.
- 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 : Not combustible.
Use extinguishing agent suitable for type of surrounding fire.
- Fire and Explosion Hazards : Fire may produce irritating or poisonous fumes. Containers can build up pressure if exposed to heat (fire). Cool closed containers exposed to fire with water spray.
- Special Fire-fighting Procedures : As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

- Methods for cleaning up : Evacuate personnel to safe areas. Wear personal protective equipment. Contain spill immediately. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

- Handling : Keep out of reach of children. For personal protection see section 8.
- Storage : Store in a place accessible by authorized persons only. Keep container tightly closed.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection	:	Wear as appropriate: safety glasses with side-shields goggles face-shield
Hand protection	:	Wear Chemically resistant gloves.
Body Protection	:	Wear as appropriate: Chemically resistant clothes preventive skin protection
Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygienic Practices	:	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
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	:	clear
Physical State	:	liquid
Odor	:	slight
pH	:	2.4
Odor Threshold	:	no data available
Vapor Pressure	:	18 mm/Hg at 77 °F (25 °C)
Vapor Density	:	< 1 (Air = 1)
Boiling point/range	:	212 °F (100 °C)
Freeze Point	:	32 °F (0 °C)
Water solubility	:	partly soluble
Specific Gravity	:	1.11
Viscosity	:	no data available
Evaporation rate	:	Slower than Butyl acetate
Partition coefficient (n-octanol/water)	:	no data available
VOC Concentration as applied (less water and exempt solvents)	:	0 g/l

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10. STABILITY AND REACTIVITY

- Stability : Stable under recommended storage conditions.
- Conditions to avoid : Prolonged exposure to high temperatures
- Materials to avoid : strong oxidizing agents
strong bases
- Hazardous decomposition products : Oxides of carbon
sulphur compounds
Thermal decomposition can lead to release of irritating gases and vapours.
- Hazardous polymerization : Will not occur when handled according to instructions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>	<u>Exposure time</u>
	LC50	no data available		
<u>Component</u>				
MAGNESIUM SILICOFLUORIDE	LC50	no data available		
SULFURIC ACID	LC50	no data available		

Acute oral toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
	LD50 (Oral)	no data available	
<u>Component</u>			
MAGNESIUM SILICOFLUORIDE	LD50 (Oral)	no data available	
SULFURIC ACID	LD50 (Oral)	no data available	

Acute dermal toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
	LD50 (Dermal)	no data available	
<u>Component</u>			
MAGNESIUM SILICOFLUORIDE	LD50 (Dermal)	no data available	
SULFURIC ACID	LD50 (Dermal)	no data available	

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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 UN-No Class Packaging group Primary Label	CORROSIVE LIQUIDS, N.O.S. (SULFURIC ACID) 1760 8 II Corrosive
IATA	: Proper shipping name UN-No Class Packaging group Primary Label	CORROSIVE LIQUIDS, N.O.S. (SULFURIC ACID) 1760 8 II Corrosive

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

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>
0.10 - 1.00 %	7664-93-9	SULFURIC ACID

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>
1,000 lbs	7664-93-9	SULFURIC ACID

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>
7664-93-9	SULFURIC ACID
75-21-8	ETHYLENE OXIDE
7439-92-1	INORGANIC LEAD
123-91-1	DIOXANE
7440-38-2	ARSENIC
75-07-0	ACETALDEHYDE

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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End of MSDS.