

SAFETY DATA SHEET

Product Trade Name: **BAROTHERM® MAX**

Revision Date: 13-Apr-2015

Revision Number: 9

1. Identification

1.1. Product Identifier

Product Trade Name: BAROTHERM® MAX
Synonyms: None
Chemical Family: Mineral
Internal ID Code: HM006620

1.2 Recommended use and restrictions on use

Application: Grouting Material
Uses Advised Against: No information available

1.3 Manufacturer's Name and Contact Details

Manufacturer/Supplier: Baroid Fluid Services
Product Service Line of Halliburton
P.O. Box 1675
Houston, TX 77251
Telephone: (281) 871-4000
Emergency Telephone: (281) 575-5000

Prepared By: Chemical Stewardship
Telephone: 1-580-251-4335
e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone number

Emergency Telephone Number: (281) 575-5000

2. Hazard(s) Identification

2.1 Classification in accordance with paragraph (d) of §1910.1200

| | |
|--|--------------------|
| Carcinogenicity | Category 1A - H350 |
| Specific Target Organ Toxicity - (Repeated Exposure) | Category 1 - H372 |

2.2. Label Elements

Hazard Pictograms**Signal Word**

Danger

Hazard Statements

H350 - May cause cancer by inhalation
 H372 - Causes damage to organs through prolonged or repeated exposure if inhaled

May form combustible dust concentrations in air.

Precautionary Statements**Prevention**

P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention

Storage

P405 - Store locked up

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

Contains**Substances**

Graphite

Crystalline silica, quartz

Sodium acid pyrophosphate

Crystalline silica, cristobalite

Crystalline silica, tridymite

CAS Number

7782-42-5

14808-60-7

7758-16-9

14464-46-1

15468-32-3

2.3 Hazards not otherwise classified

None known

3. Composition/information on Ingredients

| Substances | CAS Number | PERCENT (w/w) | GHS Classification - US |
|----------------------------------|------------|---------------|---|
| Graphite | 7782-42-5 | 30 - 60% | Combustible dust |
| Crystalline silica, quartz | 14808-60-7 | 10 - 30% | Carc. 1A (H350) STOT RE 1 (H372) |
| Sodium acid pyrophosphate | 7758-16-9 | 5 - 10% | Acute Tox. 4 (H302) Eye Irrit. 2A (H319) |
| Crystalline silica, cristobalite | 14464-46-1 | 0.1 - 1% | Carc. 1A (H350) STOT RE 1 (H372) |
| Crystalline silica, tridymite | 15468-32-3 | 0.1 - 1% | Carc. 1A (H350) STOT RE 1 (H372) |

The exact percentage (concentration) of the composition has been withheld as proprietary.

4. First-Aid Measures

4.1. Description of first aid measures

| | |
|-------------------|---|
| 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. |

4.2 Most important symptoms/effects, acute and delayed

Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

All standard fire fighting media

Extinguishing media which must not be used for safety reasons

None known.

5.2 Specific hazards arising from the substance or mixture

Special Exposure Hazards

Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping practices are required to minimize this potential.

5.3 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.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 8 for additional information

6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

6.3. Methods and material for containment and cleaning up

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

7. Handling and storage

7.1. Precautions for Safe Handling

Handling Precautions

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Information

Do not reuse empty container. Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Product has a shelf life of 36 months.

8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

| Substances | CAS Number | OSHA PEL-TWA | ACGIH TLV-TWA |
|----------------------------------|------------|---|------------------------------|
| Graphite | 7782-42-5 | 15 mg/M3 | TWA: 2 mg/m ³ |
| Crystalline silica, quartz | 14808-60-7 | 10 mg/m ³ %SiO ₂ + 2 | TWA: 0.025 mg/m ³ |
| Sodium acid pyrophosphate | 7758-16-9 | Not applicable | Not applicable |
| Crystalline silica, cristobalite | 14464-46-1 | 1/2 x 10 mg/m ³ %SiO ₂ + 2 | TWA: 0.025 mg/m ³ |
| Crystalline silica, tridymite | 15468-32-3 | 1/2 x 10 mg/m ³ %SiO ₂ + 2 | 0.05 mg/m ³ |

8.2 Appropriate engineering controls

Engineering Controls

Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.

8.3 Individual protection measures, such as personal protective equipment

Personal Protective Equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection

Not normally needed. But if significant exposures are possible then the following respirator is recommended:

Dust/mist respirator. (N95, P2/P3)

Hand Protection

Normal work gloves.

Skin Protection

Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing.

Eye Protection

Wear safety glasses or goggles to protect against exposure.

Other Precautions

None known.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Powder

Color: Dark gray

Odor: Odorless

Odor Threshold: No information available

Property

Values

Remarks/ - Method

| | |
|---|---------------------------|
| pH: | 5.5-7.5 (5%) |
| Freezing Point/Range | No information available. |
| Melting Point/Range | No data available |
| Boiling Point/Range | No data available |
| Flash Point | No data available |
| Flammability (solid, gas) | No data available |
| upper flammability limit | No data available |
| lower flammability limit | No data available |
| Evaporation rate | No data available |
| Vapor Pressure | No data available |
| Vapor Density | No data available |
| Specific Gravity | 2.5 |
| Water Solubility | Insoluble in water |
| 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 |

9.2. Other information

VOC Content (%) No data available

10. Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

None anticipated

10.5. Incompatible Materials

Hydrofluoric acid.

10.6. Hazardous Decomposition Products

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).

11. Toxicological Information

11.1 Information on likely routes of exposure

Principle Route of Exposure Eye or skin contact, inhalation.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Acute Toxicity

Inhalation Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity" subsection below).

Eye Contact May cause mechanical irritation to eye.
Skin Contact May cause mechanical skin irritation.
Ingestion None known

Chronic Effects/Carcinogenicity Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

11.3 Toxicity data

Toxicology data for the components

| Substances | CAS Number | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------------------------|------------|--|---|--|
| Graphite | 7782-42-5 | 10,000 mg/kg (Rat) 2,000 mg/kg (Rat) | No data available | >2,000 mg/L (Rat) 4h |
| Crystalline silica, quartz | 14808-60-7 | >15,000 mg/kg (Human) 500 mg/kg (Rat) | No data available | No data available |
| Sodium acid pyrophosphate | 7758-16-9 | 1800 mg/kg (Rat) 2650 mg/kg (Mouse) 3600 mg/kg (Rat) | > 2000 mg/kg (Rat) > 7940 mg/kg (Rabbit) | 0.58 mg/L (Rat) 4h > 0.58 mg/L (Mouse) 4h |
| Crystalline silica, cristobalite | 14464-46-1 | >15,000 mg/kg (Human) | No data available | No data available |
| Crystalline silica, tridymite | 15468-32-3 | >15,000 mg/kg (Human) | No data available | No data available |

| Substances | CAS Number | Skin corrosion/irritation |
|----------------------------|------------|-------------------------------------|
| Graphite | 7782-42-5 | Non-irritating to the skin (Rabbit) |
| Crystalline silica, quartz | 14808-60-7 | Non-irritating to the skin |
| Sodium acid pyrophosphate | 7758-16-9 | Non-irritating to the skin (Rabbit) |

| | | |
|----------------------------------|------------|----------------------------|
| Crystalline silica, cristobalite | 14464-46-1 | Non-irritating to the skin |
| Crystalline silica, tridymite | 15468-32-3 | Non-irritating to the skin |

| Substances | CAS Number | Eye damage/irritation |
|----------------------------------|------------|--|
| Graphite | 7782-42-5 | Non-irritating to rabbit's eye |
| Crystalline silica, quartz | 14808-60-7 | Mechanical irritation of the eyes is possible. |
| Sodium acid pyrophosphate | 7758-16-9 | Irritating to eyes. (Rabbit) |
| Crystalline silica, cristobalite | 14464-46-1 | Mechanical irritation of the eyes is possible. |
| Crystalline silica, tridymite | 15468-32-3 | Mechanical irritation of the eyes is possible. |

| Substances | CAS Number | Skin Sensitization |
|----------------------------------|------------|---|
| Graphite | 7782-42-5 | Did not cause sensitization on laboratory animals |
| Crystalline silica, quartz | 14808-60-7 | Not regarded as a sensitizer. |
| Sodium acid pyrophosphate | 7758-16-9 | Did not cause sensitization on laboratory animals (mouse) |
| Crystalline silica, cristobalite | 14464-46-1 | Not regarded as a sensitizer. |
| Crystalline silica, tridymite | 15468-32-3 | Not regarded as a sensitizer. |

| Substances | CAS Number | Respiratory Sensitization |
|----------------------------------|------------|---------------------------|
| Graphite | 7782-42-5 | No information available |
| Crystalline silica, quartz | 14808-60-7 | No information available |
| Sodium acid pyrophosphate | 7758-16-9 | No information available |
| Crystalline silica, cristobalite | 14464-46-1 | No information available |
| Crystalline silica, tridymite | 15468-32-3 | No information available |

| Substances | CAS Number | Mutagenic Effects |
|----------------------------------|------------|---|
| Graphite | 7782-42-5 | In vitro tests did not show mutagenic effects |
| Crystalline silica, quartz | 14808-60-7 | Not regarded as mutagenic. |
| Sodium acid pyrophosphate | 7758-16-9 | In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. |
| Crystalline silica, cristobalite | 14464-46-1 | Not regarded as mutagenic. |
| Crystalline silica, tridymite | 15468-32-3 | Not regarded as mutagenic. |

| Substances | CAS Number | Carcinogenic Effects |
|----------------------------------|------------|--|
| Graphite | 7782-42-5 | No information available. |
| Crystalline silica, quartz | 14808-60-7 | Contains crystalline silica which may cause silicosis, a delayed and progressive lung disease. The IARC and NTP have determined there is sufficient evidence in humans of the carcinogenicity of crystalline silica with repeated respiratory exposure. Based on available scientific evidence, this substance is a threshold carcinogen with a mode of action involving indirect genotoxicity secondary to lung injury. |
| Sodium acid pyrophosphate | 7758-16-9 | Did not show carcinogenic effects in animal experiments (similar substances) |
| Crystalline silica, cristobalite | 14464-46-1 | Contains crystalline silica which may cause silicosis, a delayed and progressive lung disease. The IARC and NTP have determined there is sufficient evidence in humans of the carcinogenicity of crystalline silica with repeated respiratory exposure. Based on available scientific evidence, this substance is a threshold carcinogen with a mode of action involving indirect genotoxicity secondary to lung injury. |
| Crystalline silica, tridymite | 15468-32-3 | Contains crystalline silica which may cause silicosis, a delayed and progressive lung disease. The IARC and NTP have determined there is sufficient evidence in humans of the carcinogenicity of crystalline silica with repeated respiratory exposure. Based on available scientific evidence, this substance is a threshold carcinogen with a mode of action involving indirect genotoxicity secondary to lung injury. |

| Substances | CAS Number | Reproductive toxicity |
|----------------------------------|------------|---|
| Graphite | 7782-42-5 | Animal testing did not show any effects on fertility. |
| Crystalline silica, quartz | 14808-60-7 | No information available |
| Sodium acid pyrophosphate | 7758-16-9 | Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. |
| Crystalline silica, cristobalite | 14464-46-1 | No information available |
| Crystalline silica, tridymite | 15468-32-3 | No information available |

| Substances | CAS Number | STOT - single exposure |
|----------------------------|------------|---|
| Graphite | 7782-42-5 | May cause disorder and damage to the Lungs |
| Crystalline silica, quartz | 14808-60-7 | No significant toxicity observed in animal studies at concentration requiring classification. |
| Sodium acid pyrophosphate | 7758-16-9 | No information available |

| | | |
|----------------------------------|------------|---|
| Crystalline silica, cristobalite | 14464-46-1 | No significant toxicity observed in animal studies at concentration requiring classification. |
| Crystalline silica, tridymite | 15468-32-3 | No significant toxicity observed in animal studies at concentration requiring classification. |

| Substances | CAS Number | STOT - repeated exposure |
|----------------------------------|------------|---|
| Graphite | 7782-42-5 | No significant toxicity observed in animal studies at concentration requiring classification. |
| Crystalline silica, quartz | 14808-60-7 | Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs) |
| Sodium acid pyrophosphate | 7758-16-9 | No significant toxicity observed in animal studies at concentration requiring classification. |
| Crystalline silica, cristobalite | 14464-46-1 | Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs) |
| Crystalline silica, tridymite | 15468-32-3 | Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs) |

| Substances | CAS Number | Aspiration hazard |
|----------------------------------|------------|--------------------------|
| Graphite | 7782-42-5 | No information available |
| Crystalline silica, quartz | 14808-60-7 | Not applicable |
| Sodium acid pyrophosphate | 7758-16-9 | Not applicable |
| Crystalline silica, cristobalite | 14464-46-1 | Not applicable |
| Crystalline silica, tridymite | 15468-32-3 | Not applicable |

12. Ecological Information

12.1. Toxicity

Ecotoxicity Effects

Product Ecotoxicity Data

No data available

Substance Ecotoxicity Data

| Substances | CAS Number | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Toxicity to Invertebrates |
|----------------------------------|------------|---|---|--|--|
| Graphite | 7782-42-5 | EC50 (72h) >100 mg/L (Pseudokirchnerella subcapitata) | LC50 (96h) > 100 mg/L (Danio rerio) | EC50 (3h) > 1012.5 mg/L (Activated sludge) | EC50 (48h) >100 mg/L (Daphnia magna) |
| Crystalline silica, quartz | 14808-60-7 | No information available | LL0 (96h) 10,000 mg/L (Danio rerio) (similar substance) | No information available | LL50 (24h) > 10,000 mg/L (Daphnia magna) (similar substance) |
| Sodium acid pyrophosphate | 7758-16-9 | No information available | LC50 (48h) > 1500 mg/L (Goldorfen) | No information available | No information available |
| Crystalline silica, cristobalite | 14464-46-1 | No information available | LL0 (96h) 10,000 mg/L (Danio rerio) (similar substance) | No information available | LL50 (24h) > 10,000 mg/L (Daphnia magna) (similar substance) |
| Crystalline silica, tridymite | 15468-32-3 | No information available | LL0 (96h) 10,000 mg/L (Danio rerio) (similar substance) | No information available | LL50 (24h) > 10,000 mg/L (Daphnia magna) (similar substance) |

12.2. Persistence and degradability

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

| Substances | CAS Number | Persistence and Degradability |
|----------------------------------|------------|--|
| Graphite | 7782-42-5 | No information available |
| Crystalline silica, quartz | 14808-60-7 | The methods for determining biodegradability are not applicable to inorganic substances. |
| Sodium acid pyrophosphate | 7758-16-9 | The methods for determining biodegradability are not applicable to inorganic substances. |
| Crystalline silica, cristobalite | 14464-46-1 | The methods for determining biodegradability are not applicable to inorganic substances. |
| Crystalline silica, tridymite | 15468-32-3 | The methods for determining biodegradability are not applicable to inorganic substances. |

12.3. Bioaccumulative potential

Does not bioaccumulate

| Substances | CAS Number | Log Pow |
|------------|------------|---------|
|------------|------------|---------|

| | | |
|----------------------------------|------------|--------------------------|
| Graphite | 7782-42-5 | No information available |
| Crystalline silica, quartz | 14808-60-7 | No information available |
| Sodium acid pyrophosphate | 7758-16-9 | No information available |
| Crystalline silica, cristobalite | 14464-46-1 | No information available |
| Crystalline silica, tridymite | 15468-32-3 | No information available |

12.4. Mobility in soil

| Substances | Mobility |
|----------------------------------|--------------------------|
| Crystalline silica, quartz | No information available |
| Sodium acid pyrophosphate | No information available |
| Crystalline silica, cristobalite | No information available |
| Crystalline silica, tridymite | No information available |

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1. Waste treatment methods

Disposal Method Bury in a licensed landfill according to federal, state, and local regulations.

Contaminated Packaging Follow all applicable national or local regulations.

14. Transport Information

US DOT

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

US DOT Bulk

DOT (Bulk) Not applicable

Canadian TDG

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

IMDG/IMO

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

IATA/ICAO

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable
Special Precautions for User: None

15. Regulatory Information

US Regulations

| | |
|--|--|
| US TSCA Inventory | All components listed on inventory or are exempt. |
| EPA SARA Title III Extremely Hazardous Substances | Not applicable |
| EPA SARA (311,312) Hazard Class | Chronic Health Hazard |
| EPA SARA (313) Chemicals | This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372). |
| EPA CERCLA/Superfund Reportable Spill Quantity | Not applicable. |
| EPA RCRA Hazardous Waste Classification | If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA. |
| California Proposition 65 | The California Proposition 65 regulations apply to this product. |
| MA Right-to-Know Law | One or more components listed. |
| NJ Right-to-Know Law | One or more components listed. |
| PA Right-to-Know Law | One or more components listed. |

Canadian Regulations

| | |
|-------------------------------|---|
| Canadian DSL Inventory | All components listed on inventory or are exempt. |
|-------------------------------|---|

16. Other information

Preparation Information

Prepared By Chemical Stewardship
 Telephone: 1-580-251-4335
 e-mail: fdunexchem@halliburton.com

Revision Date: 13-Apr-2015

Reason for Revision Update to Format SECTION: 2

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 Stewardship at 1-580-251-4335.

Key or legend to abbreviations and acronyms

bw – body weight
CAS – Chemical Abstracts Service
EC50 – Effective Concentration 50%
ErC50 – Effective Concentration growth rate 50%
LC50 – Lethal Concentration 50%
LD50 – Lethal Dose 50%
LL50 – Lethal Loading 50%
mg/kg – milligram/kilogram
mg/L – milligram/liter
NIOSH – National Institute for Occupational Safety and Health
NTP – National Toxicology Program
OEL – Occupational Exposure Limit
PEL – Permissible Exposure Limit
ppm – parts per million
STEL – Short Term Exposure Limit
TWA – Time-Weighted Average
UN – United Nations
h - hour
mg/m³ - milligram/cubic meter
mm - millimeter
mmHg - millimeter mercury
w/w - weight/weight
d - day

Key literature references and sources for data

www.ChemADVISOR.com/

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End of Safety Data Sheet