# HALLIBURTON

# SAFETY DATA SHEET BAROTHERM®

Product Trade Name:

Revision Date: 04-Mar-2016

Revision Number: 8

# 1. Identification

| 1.1. Product Identifier |            |
|-------------------------|------------|
| Product Trade Name:     | BAROTHERM® |
| Synonyms                | None       |
| Chemical Family:        | Mineral    |
| Internal ID Code        | HM004872   |

**1.2 Recommended use and restrictions on useApplication:**Weight Additive**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) 575-5000 Emergency Telephone: 1-866-519-4752 (US, Canada, Mexico) or 1-760-476-3962

Halliburton Energy Services 645 - 7th Ave SW Suite 2200 Calgary, AB T2P 4G8 Canada

#### Prepared By

Chemical Stewardship Telephone: 1-281-871-6107 e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone numberEmergency Telephone Number1-866-519-4752 or 1-760-476-3962

# 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<br>H372 - Causes damage to organs through prolonged or repeated exposure if<br>inhaled   |
| Precautionary Statements |  |
| Prevention               | <ul> <li>P201 - Obtain special instructions before use</li> <li>P202 - Do not handle until all safety precautions have been read and understood</li> <li>P260 - Do not breathe dust/fume/gas/mist/vapors/spray</li> <li>P264 - Wash face, hands and any exposed skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P280 - Wear protective gloves/eye protection/face protection</li> </ul> |
| Response                 | P308 + P313 - IF exposed or concerned: Get medical advice/attention<br>P314 - Get medical attention/advice if you feel unwell  |
| Storage<br>Disposal      | P405 - Store locked up<br>P501 - Dispose of contents/container in accordance with<br>local/regional/national/international regulations   |

#### 2.3 Hazards not otherwise classified

None known

# 3. Composition/information on Ingredients

| Substances                       | CAS Number | PERCENT (w/w) | GHS Classification - US |
|----------------------------------|------------|---------------|-------------------------|
| Crystalline silica, quartz       | 14808-60-7 | 1 - 5%        | Carc. 1A (H350)         |
|                                  |            |               | STOT RE 1 (H372)        |
| 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 Measu       | res  |
|--------------------------|--|
| 4.1. Description of firs | at 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<br>Ingestion        | Wash with soap and water. Get medical attention if irritation persists.<br>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 neededNotes to PhysicianTreat 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 in a fire Not applicable

5.3 Special protective equipment and precautions for fire-fighters Special protective equipment for firefighters Not applicable

### 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

None known.

#### 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

Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container. 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    |
|----------------------------|------------|----------------------------|------------------|
| Crystalline silica, quartz |            | TWA: 10 mg/m³<br>%SiO2 + 2 | TWA: 0.025 mg/m³ |

| Crystalline silica, cristobalite | 14464-46-1 | TWA: 1/2 x <u>10 mg/m³</u><br>%SiO2 + 2   | TWA: 0.025 mg/m³            |
|----------------------------------|------------|---|-----------------------------|
| Crystalline silica, tridymite    | 15468-32-3 | TWA: 1/2 x <u>10 mg/m</u> ³_<br>%SiO2 + 2 | TWA: 0.05 mg/m <sup>3</sup> |

#### 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,<br>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<br>laundered before reuse. Use precautionary measures to avoid creating dust when<br>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   | : Solid                 | Color             | Various                  |
|------------------|-------------------------|-------------------|--------------------------|
| Odor:            | Odorless                | Odor              | No information available |
|                  |                         | Threshold:        |                          |
|                  |                         |                   |                          |
| Property         |                         | Values            |                          |
| Remarks/ - Meth  | lod                     | 0.0               |                          |
| pH:              |                         | 9.9               |                          |
| Freezing Point   | -                       | No data availab   |                          |
| Melting Point /  |                         | No data availab   |                          |
| Boiling Point /  | Range                   | No data availab   |                          |
| Flash Point      |                         | No data availab   |                          |
| Flammability (   |                         | No data availab   |                          |
| Upper flamn      | •                       | No data available |                          |
| Lower flamn      | -                       | No data available |                          |
| Evaporation ra   |                         | No data availab   |                          |
| Vapor Pressur    |                         | No data availab   |                          |
| Vapor Density    |                         | No data availab   | le                       |
| Specific Gravi   | ty                      | 2.6               |                          |
| Water Solubili   | ty                      | Insoluble in wat  | er                       |
| Solubility in of | her solvents            | No data availab   | le                       |
| Partition coeff  | icient: n-octanol/water | No data availab   | le                       |
| Autoignition T   | emperature              | No data availab   | le                       |
| Decompositio     | n Temperature           | No data availab   | le                       |
| Viscosity        |                         | No data availab   | le                       |
| Explosive Pro    | perties                 | No information    | available                |
| Oxidizing Prop   |                         | No information    | available                |
|                  |                         |                   |                          |
| 9.2. Other info  |                         | <b>NI 1</b> /     |                          |
| VOC Content (    | %)                      | No data availab   | le                       |
|                  |                         |                   |                          |

### 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). May cause mechanical irritation to eye. **Eve Contact Skin Contact** None known. None known. Ingestion 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   |
|----------------------------|------------|-----------------------|-------------------|-------------------|
| Crystalline silica, quartz | 14808-60-7 | >15,000 mg/kg (Human) | No data available | No data available |
| Crystalline silica,        | 14464-46-1 | >15,000 mg/kg (Human) | No data available | No data available |
| cristobalite               |            |                       |                   |                   |
| Crystalline silica,        | 15468-32-3 | >15,000 mg/kg (Human) | No data available | No data available |
| tridymite                  |            |                       |                   |                   |

| Substances                       | CAS Number | Skin corrosion/irritation  |
|----------------------------------|------------|----------------------------|
| Crystalline silica, quartz       | 14808-60-7 | Non-irritating to the skin |
| 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 | Serious eye damage/irritation                  |
|----------------------------------|------------|--|
| Crystalline silica, quartz       | 14808-60-7 | Mechanical irritation of the eyes is possible. |
| 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        |
|----------------------------------|------------|---------------------------|
| Crystalline silica, quartz       | 14808-60-7 | No information available. |
| Crystalline silica, cristobalite | 14464-46-1 | No information available  |
| Crystalline silica, tridymite    | 15468-32-3 | No information available  |

| Substances                       | CAS Number | Respiratory Sensitization |
|----------------------------------|------------|---------------------------|
| Crystalline silica, quartz       | 14808-60-7 | 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          |
|----------------------------------|------------|----------------------------|
| Crystalline silica, quartz       | 14808-60-7 | Not regarded as mutagenic. |
| 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   |
|----------------------------------|------------|--|
| 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. |
| Crystalline silica, cristobalite |            | 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    |            | 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. |

|                            | CAS Number | Reproductive toxicity    |
|----------------------------|------------|--------------------------|
| Crystalline silica, quartz | 14808-60-7 | No information available |

| Crystalline silica, cristobalite | 14464-46-1 | No information available |
|----------------------------------|------------|--------------------------|
| Crystalline silica, tridymite    | 15468-32-3 | No information available |

| Substances                       | CAS Number | STOT - single exposure  |
|----------------------------------|------------|---|
| Crystalline silica, quartz       | 14808-60-7 | No significant toxicity observed in animal studies at concentration requiring classification. |
| 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   |
|----------------------------------|------------|--|
| Crystalline silica, quartz       | 14808-60-7 | Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs) |
| 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 |
|----------------------------------|------------|-------------------|
| Crystalline silica, quartz       | 14808-60-7 | 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 is not classified as hazardous to the environment. **Product Ecotoxicity Data** No data available

### Substance Ecotoxicity Data

| Substances          | CAS Number | Toxicity to Algae        | Toxicity to Fish           | Toxicity to              | Toxicity to Invertebrates |
|---------------------|------------|--------------------------|----------------------------|--------------------------|---------------------------|
|                     |            |                          |                            | Microorganisms           |                           |
| Crystalline silica, | 14808-60-7 | No information available | LL0 (96h) 10,000 mg/L      | No information available | LL50 (24h) > 10,000 mg/L  |
| guartz              |            |                          | (Danio rerio) (similar     |                          | (Daphnia magna) (similar  |
| 4                   |            |                          | substance)                 |                          | substance)                |
| Crystalline silica, | 14464-46-1 | No information available | LL0 (96h) 10,000 mg/L      | No information available | LL50 (24h) > 10,000 mg/L  |
| cristobalite        |            |                          | (Danio rerio) (similar     |                          | (Daphnia magna) (similar  |
|                     |            |                          | substance)                 |                          | substance)                |
| Crystalline silica, | 15468-32-3 | No information available | LL0 (96h) 10,000           | No information available | LL50 (24h) > 10,000 mg/L  |
| tridymite           |            |                          | mg/L(Danio rerio) (similar |                          | (Daphnia magna) (similar  |
|                     |            |                          | substance)                 |                          | substance)                |

#### 12.2. Persistence and degradability

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

| Substances                       | CAS Number | Persistence and Degradability                        |
|----------------------------------|------------|--|
| Crystalline silica, quartz       | 14808-60-7 | 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

| Substances                       | CAS Number | Log Pow                  |
|----------------------------------|------------|--------------------------|
| Crystalline silica, quartz       | 14808-60-7 | 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                       | CAS Number | Mobility                 |
|----------------------------------|------------|--------------------------|
| Crystalline silica, quartz       | 14808-60-7 | No information available |
| Crystalline silica, cristobalite | 14464-46-1 | No information available |
| Crystalline silica, tridymite    | 15468-32-3 | No information available |

#### 12.5 Other adverse effects

No information available

#### 13. Disposal Considerations 13.1. Waste treatment methods **Disposal methods** 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 Not applicable Packing Group: **Environmental Hazards** 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 Not restricted **UN Number** 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.

#### TSCA Significant New Use Rules - S5A2

| Substances                       | CAS Number | TSCA Significant New Use Rules - S5A2 |
|----------------------------------|------------|---------------------------------------|
| Crystalline silica, quartz       | 14808-60-7 | Not applicable                        |
| Crystalline silica, cristobalite | 14464-46-1 | Not applicable                        |
| Crystalline silica, tridymite    | 15468-32-3 | Not applicable                        |

#### EPA SARA Title III Extremely Hazardous Substances

#### BAROTHERM®

| Substances                       | CAS Number | EPA SARA Title III Extremely Hazardous |
|----------------------------------|------------|--|
|                                  |            | Substances                             |
| Crystalline silica, quartz       | 14808-60-7 | Not applicable                         |
| Crystalline silica, cristobalite | 14464-46-1 | Not applicable                         |
| Crystalline silica, tridymite    | 15468-32-3 | Not applicable                         |

### EPA SARA (311,312) Hazard Class

Chronic Health Hazard

#### EPA SARA (313) Chemicals

| Substances                       | CAS Number | Toxic Release Inventory (TRI) - | Toxic Release Inventory (TRI) - |
|----------------------------------|------------|---------------------------------|---------------------------------|
|                                  |            | Group I                         | Group II                        |
| Crystalline silica, quartz       | 14808-60-7 | Not applicable                  | Not applicable                  |
| Crystalline silica, cristobalite | 14464-46-1 | Not applicable                  | Not applicable                  |
| Crystalline silica, tridymite    | 15468-32-3 | Not applicable                  | Not applicable                  |

#### EPA CERCLA/Superfund Reportable Spill Quantity

| Substances                       | CAS Number | CERCLA RQ      |
|----------------------------------|------------|----------------|
| Crystalline silica, quartz       | 14808-60-7 | Not applicable |
| Crystalline silica, cristobalite | 14464-46-1 | Not applicable |
| Crystalline silica, tridymite    | 15468-32-3 | 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.  |
| NFPA Ratings:<br>HMIS Ratings: | Health 0, Flammability 0, Reactivity 0<br>Health 0*, Flammability 0, Reactivity 0 |

# **Canadian Regulations**

Canadian Domestic Substances All components listed on inventory or are exempt. List (DSL)

# 16. Other information

| Preparation Information<br>Prepared By | Chemical Stewardship<br>Telephone: 1-281-871-6107<br>e-mail: fdunexchem@halliburton.com |
|--|---|
| Revision Date:                         | 04-Mar-2016   |
| Reason for Revision                    | SDS sections updated:<br>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 used in the safety data sheet 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/m<sup>3</sup> - milligram/cubic meter mm - millimeter mmHg - millimeter mercury w/w - weight/weight d - day

#### Key literature references and sources for data

www.ChemADVISOR.com/

#### **Disclaimer Statement**

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#### End of Safety Data Sheet