#### **HALLIBURTON**

## SAFETY DATA SHEET

Product Trade Name: AQUA-GROUT®

Revision Date: 17-Mar-2015 Revision Number: 8

#### 1. Identification

1.1. Product Identifier

Product Trade Name: AQUA-GROUT®

Synonyms: None
Chemical Family: Mineral
Internal ID Code HM003471

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

| Serious Eye Damage / Eye Irritation                  | Category 2 - H319  |
|--|--------------------|
| Carcinogenicity                                      | Category 1A - H350 |
| Reproductive Toxicity                                | Category 2 - H361  |
| Specific Target Organ Toxicity - (Single Exposure)   | Category 1 - H370  |
| Specific Target Organ Toxicity - (Repeated Exposure) | Category 1 - H372  |

#### 2.2. Label Elements

**Hazard Pictograms** 



Signal Word

Danger

\_\_\_\_\_

Hazard Statements H319 - Causes serious eye irritation

H350 - May cause cancer by inhalation

H361 - Suspected of damaging fertility or the unborn child

H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure

#### **Precautionary Statements**

**Prevention** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing P307 + P311 - IF exposed: Call a POISON CENTER or doctor/physician P308 + P313 - IF exposed or concerned: Get medical advice/attention P337 + P313 - If eye irritation persists: Get medical advice/attention

Storage P405 - Store locked up

**Disposal** P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

**Contains** 

SubstancesCAS NumberSodium borate1303-96-4Sodium chloride7647-14-5Potassium carbonate584-08-7Crystalline silica, quartz14808-60-7

#### 2.3 Hazards not otherwise classified

None known

#### 3. Composition/information on Ingredients

| Substances                 | CAS Number | PERCENT (w/w) | GHS Classification - US   |
|----------------------------|------------|---------------|---|
| Sodium borate              | 1303-96-4  | 10 - 30%      | Acute Tox. 4 (H302)<br>Eye Irrit. 2A (H319)<br>Repr. 2 (H361)<br>STOT SE 1 (H370) |
| Sodium chloride            | 7647-14-5  | 10 - 30%      | Eye Irrit. 2B (H320)  |
| Potassium carbonate        | 584-08-7   | 10 - 30%      | Eye Irrit. 2 (H319)<br>STOT SE 3 (H335)   |
| Crystalline silica, quartz | 14808-60-7 | 1 - 5%        | Carc. 1A (H350)<br>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

Carcinogen. Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease. May cause damage to internal organs. May cause eye and respiratory irritation. May cause birth defects. Prolonged or repeated exposure may cause blood forming system, nervous, urinary tract and reproductive system damage.

#### 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** 

None anticipated

#### 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**

Store in a cool, dry location. Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container.

#### 8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

| Substances                 | CAS Number | OSHA PEL-TWA            | ACGIH TLV-TWA   |
|----------------------------|------------|-------------------------|---|
| Sodium borate              | 1303-96-4  | 10 mg/m <sup>3</sup>    | TWA: 2 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup> |
| Sodium chloride            | 7647-14-5  | Not applicable          | Not applicable  |
| Potassium carbonate        | 584-08-7   | Not applicable          | Not applicable  |
| Crystalline silica, quartz | 14808-60-7 | 10 mg/m³ _<br>%SiO2 + 2 | TWA: 0.025 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,

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: Solid Color: Light red

Odor: Odorless Odor No information available

Threshold:

9-10.5

Property Values

Remarks/ - Method

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** No data available **Water Solubility** Insoluble in water Solubility in other solvents No data available No data available Partition coefficient: n-octanol/water No data available **Autoignition Temperature Decomposition Temperature** No data available No data available **Viscosity** 

**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 mild 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

| loxicology data for the components |            |  |   |                         |
|------------------------------------|------------|--|---|-------------------------|
| Substances                         | CAS Number | LD50 Oral  | LD50 Dermal   | LC50 Inhalation         |
| Sodium borate                      | 1303-96-4  | 2660 mg/kg (Rat)<br>2403 mg/kg (Rat)<br>> 2500 mg/kg (Rat)<br>2000 mg/kg (Mouse) | > 2000 mg/kg (Rabbit)<br>>10,000 mg/kg (Rabbit)<br>> 2000 mg/kg (Rabbit) (Similar<br>substance) | > 2.04 mg/L (Rat) 4h    |
| Sodium chloride                    | 7647-14-5  | 3000 mg/kg (Rat)<br>3550 mg/kg (Rat)   | >10000 mg/kg (Rabbit)   | 42 mg/L (Rat) 1h        |
| Potassium carbonate                | 584-08-7   | 1870 mg/kg (Rat)<br>> 2000 mg/kg (Rat)   | 1.87 mg/kg (Rat)<br>> 2000 mg/kg (Rabbit)   | > 4.96 mg/L (Rat) 4.5 h |
| Crystalline silica, quartz         | 14808-60-7 | 500 mg/kg (Rat)<br>>15,000 mg/kg (Human)   | No data available   | No data available       |

| Substances                 | CAS Number | Skin corrosion/irritation                                |
|----------------------------|------------|--|
| Sodium borate              | 1303-96-4  | Non-irritating to the skin (Rabbit) (similar substances) |
| Sodium chloride            | 7647-14-5  | Non-irritating to the skin (Rabbit)                      |
| Potassium carbonate        | 584-08-7   | Irritating to skin.                                      |
| Crystalline silica, quartz | 14808-60-7 | Non-irritating to the skin                               |

| Substances                 | CAS Number | Eye damage/irritation   |
|----------------------------|------------|---|
| Sodium borate              | 1303-96-4  | Causes moderate eye irritation. (Rabbit) (similar substances) |
| Sodium chloride            | 7647-14-5  | May cause mild eye irritation. (Rabbit)                       |
| Potassium carbonate        | 584-08-7   | Irritating to eyes.   |
| Crystalline silica, quartz | 14808-60-7 | Mechanical irritation of the eyes is possible.                |

| Substances                 | CAS Number | Skin Sensitization  |
|----------------------------|------------|---|
| Sodium borate              | 1303-96-4  | Patch test on human volunteers did not demonstrate sensitization properties |
| Sodium chloride            | 7647-14-5  | No information available  |
| Potassium carbonate        | 584-08-7   | Did not cause sensitization on laboratory animals (guinea pig)              |
| Crystalline silica, quartz | 14808-60-7 | Not regarded as a sensitizer.   |

| Substances                 | CAS Number | Respiratory Sensitization |
|----------------------------|------------|---------------------------|
| Sodium borate              | 1303-96-4  | No information available  |
| Sodium chloride            | 7647-14-5  | No information available  |
| Potassium carbonate        | 584-08-7   | No information available  |
| Crystalline silica, quartz | 14808-60-7 | No information available  |

| Substances                 | CAS Number | Mutagenic Effects  |
|----------------------------|------------|--|
| Sodium borate              | 1303-96-4  | In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar |
|                            |            | substances)  |
| Sodium chloride            | 7647-14-5  | No information available   |
| Potassium carbonate        | 584-08-7   | In vitro tests did not show mutagenic effects  |
| Crystalline silica, quartz | 14808-60-7 | Not regarded as mutagenic.   |

| Substances                 | CAS Number | Carcinogenic Effects   |
|----------------------------|------------|--|
| Sodium borate              | 1303-96-4  | Did not show carcinogenic effects in animal experiments (similar substances)   |
| Sodium chloride            | 7647-14-5  | Did not show carcinogenic effects in animal experiments  |
| Potassium carbonate        | 584-08-7   | Did not show carcinogenic effects in animal experiments (similar substances)   |
| Crystalline silica, quartz |            | 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   |
|----------------------------|------------|---|
| Sodium borate              | 1303-96-4  | Experiments have shown reproductive toxicity effects on laboratory animals                                    |
| Sodium chloride            | 7647-14-5  | Not a confirmed reproductive toxicant.  |
| Potassium carbonate        |            | Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. |
| Crystalline silica, quartz | 14808-60-7 | No information available  |

| Substances                 | CAS Number | STOT - single exposure  |
|----------------------------|------------|---|
| Sodium borate              | 1303-96-4  | No information available  |
| Sodium chloride            | 7647-14-5  | No information available  |
| Potassium carbonate        | 584-08-7   | May cause respiratory irritation.   |
| Crystalline silica, quartz | 14808-60-7 | No significant toxicity observed in animal studies at concentration requiring classification. |

| Substances                 | CAS Number | STOT - repeated exposure   |
|----------------------------|------------|--|
| Sodium borate              | 1303-96-4  | No significant toxicity observed in animal studies at concentration requiring classification.                      |
| Sodium chloride            | 7647-14-5  | Not classified   |
| Potassium carbonate        |            | No significant toxicity observed in animal studies at concentration requiring classification. (similar substances) |
| Crystalline silica, quartz | 14808-60-7 | Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs)                                 |

| Substances                 | CAS Number | Aspiration hazard        |
|----------------------------|------------|--------------------------|
| Sodium borate              | 1303-96-4  | Not applicable           |
| Sodium chloride            | 7647-14-5  | No information available |
| Potassium carbonate        | 584-08-7   | Not applicable           |
| Crystalline silica, quartz | 14808-60-7 | 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<br>Microorganisms  | Toxicity to Invertebrates  |
|-------------------------------|------------|---|---|--|--|
| Sodium borate                 | 1303-96-4  | EC50 (96h) 15.4 mg/L<br>(Pseudokirchnerella<br>subcapitata)<br>EC10 (3d) 35 mg/L<br>(Pseudokirchnerella<br>subcapitata) | LC50 (96h) 14.2 mg/L<br>(Danio rerio)<br>LC50 (96h) 27 mg/L<br>(Oncorhynchus mykiss)  | No information available   | EC50 (48h) 102 mg/L<br>(Ceriodaphnia dubia)<br>LC50 (96h) > 447 mg/L<br>(Sphaerium simile)<br>LC50 (96h) > 544 mg/L<br>(Megalonaias nervosa) |
| Sodium chloride               | 7647-14-5  | EC50 (120h) 2430 mg/L<br>(Nitzschia sp.)  | TLM96 > 1000 mg/L<br>(Oncorhynchus mykiss)<br>LC50 (96h) 5840 mg/L<br>(Lepomis macrochirus)<br>NOEC (33d) 252 mg/L<br>(Pimephales promelas) | NOEC 5000 – 8000 mg/L<br>(activated sludge)<br>NOEC 292-584 mg/L<br>(Escherichia coli) | TLM96 > 1,000,000 ppm<br>(Mysidopsis bahia)<br>LC50 (48h) 874-4136<br>mg/L (Daphnia magna)<br>NOEC (21d) 314 mg/L<br>(Daphnia pulex)         |
| Potassium carbonate           | 584-08-7   | No information available  | LC50 (96h) 68 mg/L<br>(Oncorhynchus mykiss)   | No information available   | EC50 (48h) 200 mg/L<br>(Daphnia pulex)   |
| Crystalline silica,<br>quartz | 14808-60-7 | No information available  | LL50 (96h) 10,000 mg/L<br>(Danio rerio) (similar<br>substance)  | No information available   | LL50 (24h) > 10,000 mg/L<br>(Daphnia magna) (similar<br>substance)   |

#### 12.2. Persistence and degradability

| Substances                 | CAS Number | Persistence and Degradability  |
|----------------------------|------------|--|
| Sodium borate              | 1303-96-4  | The methods for determining biodegradability are not applicable to inorganic substances. |
| Sodium chloride            | 7647-14-5  | The methods for determining biodegradability are not applicable to inorganic substances. |
| Potassium carbonate        | 584-08-7   | The methods for determining biodegradability are not applicable to inorganic substances. |
| Crystalline silica, quartz | 14808-60-7 | The methods for determining biodegradability are not applicable to inorganic substances. |

#### 12.3. Bioaccumulative potential

| Substances                 | CAS Number | Log Pow                  |
|----------------------------|------------|--------------------------|
| Sodium borate              | 1303-96-4  | No information available |
| Sodium chloride            | 7647-14-5  | No information available |
| Potassium carbonate        | 584-08-7   | No information available |
| Crystalline silica, quartz | 14808-60-7 | No information available |

#### 12.4. Mobility in soil

| Substances          | Mobility                 |
|---------------------|--------------------------|
| Sodium borate       | No information available |
| Sodium chloride     | No information available |
| Potassium carbonate | No information available |

#### 12.5 Other adverse effects

No information available

#### 13. Disposal Considerations

#### 13.1. Waste treatment methods

**Disposal Method** If practical, recover and reclaim, recycle, or reuse by the guidelines of an

approved local reuse program. Should contaminated product become a waste, dispose of in a licensed industrial landfill according to federal, state, and local

regulations.

**Contaminated Packaging** Follow all applicable national or local regulations.

#### 14. Transport Information

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**US DOT** 

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

**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 Not applicable **Packing Group: Environmental Hazards:** Not applicable

IMDG/IMO

Not restricted **UN Number: UN Proper Shipping Name:** Not restricted **Transport Hazard Class(es):** Not applicable Not applicable **Packing Group: 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: 17-Mar-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/

#### **Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

**End of Safety Data Sheet**