SAFETY DATA SHEET

**Product Trade Name: MC-30, MC-60**

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| 1. **Identification** |

* 1. **Product Identifier**

**Product Trade Name:** MC-30**,** MC-60

**Synonyms:** None

**Chemical Family:** Mineral

**Internal ID Code:** HM005244

* 1. **Recommended use and restrictions on use**

**Application:** Additive

**Uses Advised Against** No information available

* 1. **Manufacturer’s Name and Contact Details**

**Manufacturer/Supplier** Meitler Consulting, Inc.

16979 Chieftain Rd

Tonganoxie, KS 66086

Telephone: 913-422-9339

Fax: 913-845-2950

Email: [brian@mciclay.com](mailto:brian@mciclay.com)

**1.4. Emergency telephone number**

**Emergency number** 913-422-9339

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| 1. **Hazard(s) Identification** |

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

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

**2.2. Label Elements**

**Hazard Pictograms**

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**Signal Word** Danger

H350 - May cause cancer by inhalation

H372 - Causes damage to organs through prolonged or repeated exposure if

inhaled

**Hazard Statements**

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

P314 - Get medical attention/advice if you feel unwell

**Storage** P405 - Store locked up

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

local/regional/national/international regulations

**Contains**

**Substances CAS Number**

Bentonite 1302-78-9

Crystalline silica, quartz 14808-60-7

Crystalline silica, cristobalite 14464-46-1

Crystalline silica, tridymite 15468-32-3

**2.3 Hazards not otherwise classified**

None Known

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| 1. **Composition/information on Ingrediants** |

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| **Substances** | **CAS Number** | **Percent (w/w)** | **GHS Classification-US** |
| Bentonite | 1302-78-9 | 60 - 100% | Not classified |
| 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.

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| 1. **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.

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| 1. **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**

Not applicable.

**5.3 Special protective equipment and precautions for fire-fighters**

**Special Protective Equipment for Fire-Fighters**

Not applicable.

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| 1. **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.

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| 1. **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.

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| 1. **Exposure Controls/Personal Protection** |

**8.1 Occupational Exposure Limits**

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| --- | --- | --- | --- |
| **Substances** | **CAS number** | **OSHA PEL-TWA** | **ACGIH TLV-TWA** |
| Bentonite | 1302-78-9 | Not applicable | TWA: 1 mg/m3 |
| Crystalline silica, quartz | 14808-60-7 | 10 mg/m3  %SiO2 + 2 | TWA: 0.025 mg/m3 |
| Crystalline silica, cristobalite | 14464-46-1 | 1/2 x 10 mg/m3  %SiO2 + 2 | TWA: 0.025 mg/m3 |
| Crystalline silica, tridymite | 15468-32-3 | 1/2 x 10 mg/m3  %SiO2 + 2 | 0.05 mg/m3 |

**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.

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| 1. **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/ - Method

**pH:** 9.9

**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** 2.65

**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

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| 1. **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).

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| 1. **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**

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| --- | --- | --- | --- | --- |
| **Substances** | **CAS Number** | **LD50 Oral** | **LD50 Dermal** | **LC50 Inhalation** |
| Bentonite | 1302-78-9 | > 5000 mg/kg (Rat)  > 2000 mg/kg (Rat) | No data available | > 5.27 mg/L (Rat) |
| Crystalline silica, quartz | 14808-60-7 | 500 mg/kg (Rat)  >15,000 mg/kg(Human) | No data available | No data available |
| Crystalline silica, cristobalite | 14464-46-1 | 500 mg/kg (Rat) | No data available | No data available |
| Crystalline silica, tridymite | 15468-32-3 | 500 mg/kg (Rat) | No data available | No data available |

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| --- | --- | --- |
| **Substances** | **CAS Number** | **Skin corrosion/irritation** |
| Bentonite | 1302-78-9 | Non-irritating to the eye (Rabbit) |
| 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 |

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| **Substances** | **CAS Number** | **Eye damage/irritation** |
| Bentonite | 1302-78-9 | Non-irritating to the eye (Rabbit) |
| 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. |

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| **Substances** | **CAS Number** | **Skin Sensitization** |
| Bentonite | 1302-78-9 | Did not cause sensitization on laboratory animals (mouse) |
| Crystalline silica, quartz | 14808-60-7 | Not regarded as a sensitizer. |
| Crystalline silica, cristobalite | 14464-46-1 | Not regarded as a sensitizer. |
| Crystalline silica, tridymite | 15468-32-3 | Not regarded as a sensitizer. |

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| **Substances** | **CAS Number** | **Respiratory Sensitization** |
| Bentonite | 1302-78-9 | No information available |
| 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 |

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| --- | --- | --- |
| **Substances** | **CAS Number** | **Mutagenic Effects** |
| Bentonite | 1302-78-9 | In vitro tests did not show 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. |

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| **Substances** | **CAS Number** | **Carcinogenic Effects** |
| Bentonite | 1302-78-9 | Did not show carcinogenic effects in animal experiments (similar substances) |
| 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 | 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. |

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| **Substances** | **CAS Number** | **Reproductive toxicity** |
| Bentonite | 1302-78-9 | Did not show teratogenic effects in animal experiments. |
| 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 |

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| **Substances** | **CAS Number** | **STOT - single exposure** |
| Bentonite | 1302-78-9 | None under normal use conditions |
| 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. |

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| **Substances** | **CAS Number** | **STOT - repeated exposure** |
| Bentonite | 1302-78-9 | None under normal use conditions |
| 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) |

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| --- | --- | --- |
| **Substances** | **CAS Number** | **Aspiration hazard** |
| Bentonite | 1302-78-9 | Not applicable |
| Crystalline silica, quartz | 14808-60-7 | Not applicable |
| Crystalline silica, cristobalite | 14464-46-1 | Not applicable |
| Crystalline silica, tridymite | 15468-32-3 | Not applicable |

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| 1. **Ecological Information** |

**12.1. Toxicity**

**Ecotoxicity Effects**

**Product Ecotoxicity Data**

No data available

**Substance Ecotoxicity Data**

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| --- | --- | --- | --- | --- | --- |
| **Substances** | **CAS Number** | **Toxicity to Algae** | **Toxicity to Fish** | **Toxicity to**  **Microorganisms** | **Toxicity to Invertebrates** |
| Bentonite | 1302-78-9 | EC50(72h): > 100 mg/L  (freshwater algae) | TLM96 10,000 ppm  (Oncorhynchus mykiss) LC50 (96h) 16,000 - 19,000 mg/L  (Oncorhynchus mykiss) LC50 (24h) 2800-3200 mg/L (black bass, warmouth bass, blue gill and sunfish) | No information available | EC50 (96h) 81.6 mg/L  (Metacarcinus magister)  EC50 (96h) 24.8 mg/L  (Pandalus danae)  EC50 (48h) > 100 mg/L  (Daphnia magna) |
| Crystalline silica, quartz | 14808-60-7 | No information available | LL50 (96h) 10,000  mg/L(Danio rerio) (similar  substance) | No information available | LL50 (24h) > 10,000 mg/L (Daphnia magna) (similar substance) |
| 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.

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| **Substances** | **CAS Number** | **Persistence and Degradability** |
| Bentonite | 1302-78-9 | 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. |
| 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. |
| **Substances** | **CAS Number** | **Persistence and Degradability** |
| Bentonite | 1302-78-9 | 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. |
| 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. |

No information available

**12.4. Mobility in soil**

No information available

**Substances Mobility**

Crystalline silica, quartz No information available

CAS Number

The methods for determining biodegradability are not

applicable to inorganic substances.

**12.5 Other adverse effects**

No information available

**13. Disposal Considerations**

Crystalline silica, cristobalite 14464-46-1 The methods for determining biodegradability are not

applicable to inorganic substances.

LL50 (24h) > 10,000 mg/L

(Daphnia magna) (similar

substance)

**13.1. Waste treatment methods**

Crystalline silica, tridymite

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

15468-32-3 The methods for determining biodegradability are not

applicable to inorganic substances.

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

Crystalline silica,

cristobalite

**14. Transport Information**

14464-46-1 No information available

**12.3. Bioaccumulative potential**

No information available LL50 (24h) > 10,000 mg/L

(Daphnia magna) (similar

substance)

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**Substances**

**CAS Number Log Pow**

**Canadian TDG**

**IATA/ICAO**

**Packing Group:**

**UN Number:** Not restricted

**UN Number:**

**UN Proper Shipping Name:** Not restricted

Not restricted

Not applicable

**Transport Hazard Class(es):** Not applicable

**US DOT**

**Packing Group:** Not applicable

**UN Proper Shipping Name:** Not restricted

**Environmental Hazards:** Not applicable

**Transport Hazard Class(es):**

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

Not applicable

**Environmental Hazards:**

**Special Precautions for User:** None

Not applicable

**Packing Group:** Not applicable

**UN Proper Shipping Name:**

**15. Regulatory Information**

**Environmental Hazards:** Not applicable

**US Regulations**

Not restricted

**US TSCA Inventory** All components listed on inventory or are exempt.

**IMDG/IMO**

**US DOT Bulk**

**EPA SARA Title III Extremely**

**Hazardous Substances**

Not applicable

**UN Number:** Not restricted

**EPA SARA (311,312) Hazard**

**Class**

Chronic Health Hazard

**UN Proper Shipping Name:**

**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).

Not restricted

**DOT (Bulk)** Not applicable

**EPA CERCLA/Superfund**

**Reportable Spill Quantity**

Not applicable.

**Transport Hazard Class(es):** Not applicable

**Transport Hazard Class(es):** 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.

**Packing Group:** Not applicable

**Environmental Hazards:**

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Not applicable

**UN Number:**

Not restricted

All components listed on inventory or are exempt.

**PA Right-to-Know Law** One or more components listed.

The California Proposition 65 regulations apply to this product.

**Reason for Revision** Not applicable

**MA Right-to-Know Law**

**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.

**NJ Right-to-Know Law**

**16. Other information**

**Key or legend to abbreviations and acronyms**

h - hour

mg/m3 - milligram/cubic meter

mm - millimeter

mmHg - millimeter mercury

w/w - weight/weight

d - day

One or more components listed.

**Canadian Regulations**

One or more components listed.

**Preparation Information**

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**Prepared By** Chemical Stewardship

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

**California Proposition 65**

**Canadian DSL Inventory**

**Key literature references and sources for data**

www.ChemADVISOR.com/

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