



## SAFETY DATA SHEET

LiftGuard Dry

### Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LiftGuard Dry  
Other means of identification : None  
Recommended use : Drilling Fluid Additive  
Restrictions on use : None known  
Company : Drillchem Drilling Solutions, LLC  
P.O. Box 132107  
Spring, TX 77393  
  
Emergency telephone : (800) 424-9300 (24 Hours) CHEMTREC  
number  
Issuing date : 02/20/2023

### Section: 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Not classified  
Skin irritation : Category 2  
Eye irritation : Category 2  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
Specific target organ toxicity : Not classified  
Aspiration hazard : Not classified

#### GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes serious eye irritation. Harmful if inhaled.

Precautionary Statements : **Prevention:** Avoid breathing dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection.

**Response:** If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.



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**Storage:** Store away from incompatible materials.

**Disposal:** Dispose of waste and residues in accordance with local authority requirements.

**Other hazards** : None

### Section : 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Sodium Carbonate		497-19-8	30 - <40
Calcium Hydroxide		1305-62-0	10 - < 20
Crystalline Silica		14808-60-7	< 0.1

Other components below reportable levels

#### Impurities

Chemical name	Common name and synonyms	CAS number	%
Calcium Oxide		1305-78-8	< 0.1
Crystalline Silica		14808-60-7	< 0.1

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### Section: 4. FIRST AID MEASURES

In case of eye contact	:	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
In case of skin contact	:	Wash off with soap and water. Get medical attention if irritation develops and persists.
If swallowed	:	Rinse mouth. Get medical attention if symptoms occur.
If inhaled	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Notes to physician	:	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.



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Most important symptoms and effects, both acute and delayed : Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. Coughing.

#### Section: 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.
- Specific hazards during firefighting : During fire, gases hazardous to health may be formed.
- Hazardous combustion products : No unusual fire or explosion hazards noted.
- Special protective equipment for firefighters : Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
- Specific extinguishing methods : Use standard firefighting procedures and consider the hazards of other involved materials.

#### Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
- Environmental precautions : Avoid discharge into drains, water courses or onto the ground.
- Methods and materials for containment and cleaning up : Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.
- Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
- Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
- Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS



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#### Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
- Conditions for safe storage : Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
- Suitable material : No data available
- Unsuitable material : No data available

#### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Calcium Hydroxide (CAS 1305-62-0)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.
Impurities	Type	Value	

CALCIUM OXIDE  
(CAS 1305-78-8)

PEL

5 mg/m<sup>3</sup>

##### US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Crystalline Silica (CAS 14808-60-7)	TWA	0.3 mg/m <sup>3</sup>	Total dust.
		0.1 mg/m <sup>3</sup>	Respirable.
		2.4 mppcf	Respirable.

##### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Calcium Hydroxide (CAS 1305-62-0)	TWA	5 mg/m <sup>3</sup>	
Crystalline Silica (CAS 14808-60-7)	TWA	0.025 mg/m <sup>3</sup>	Respirable fraction.
Impurities	Type	Value	
CALCIUM OXIDE (CAS 1305-78-8)	TWA	2 mg/m <sup>3</sup>	

##### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Calcium Hydroxide (CAS 1305-62-0)	TWA	5 mg/m <sup>3</sup>	
Crystalline Silica (CAS 14808-60-7)	TWA	0.05 mg/m <sup>3</sup>	Respirable dust.
Impurities	Type	Value	
CALCIUM OXIDE (CAS 1305-78-8)	TWA	2 mg/m <sup>3</sup>	



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Engineering measures : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station.

#### Personal protective equipment

Eye protection : Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

Hand protection : Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Skin protection : Wear suitable protective clothing. Wear appropriate thermal protective clothing, when necessary.

Respiratory protection : Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

Hygiene measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Powder

Colour : White to off-white

Odour : none

Flash point : no data available

pH : no data available

Odour Threshold : no data available

Melting point/freezing point : no data available

Initial boiling point and boiling range : no data available

Evaporation rate : no data available

Flammability (solid, gas) : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available



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Relative vapour density	:	no data available
Relative density	:	no data available
Specific Gravity	:	2 - 2.5 g/mL
Water solubility	:	no data available
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Thermal decomposition temperature	:	no data available
Viscosity	:	no data available
Viscosity temperature	:	no data available
Molecular weight	:	no data available
VOC	:	no data available

#### Section: 10. STABILITY AND REACTIVITY

Chemical stability	:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Contact with incompatible materials.
Incompatible materials	:	Acids. Phosphorus. Maleic anhydride. Nitroethane. Nitromethane. Nitroparaffins. Chlorine. Nitropropane.
Hazardous decomposition products	:	No hazardous decomposition products are known

#### Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact, Ingestion

##### Potential Health Effects

Eyes	:	Causes serious eye irritation.
Skin	:	Dust of powder may irritate the skin.
Ingestion	:	Expected to be a low ingestion hazard.



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Inhalation : Harmful if inhaled.

#### Toxicity

Skin corrosion/irritation : Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not a respiratory sensitizer. This product is not expected to cause skin sensitization.

#### Carcinogenicity

##### IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline Silica (CAS 14808-60-7) 1 Carcinogenic to humans.

##### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

##### US. National Toxicology Program (NTP) Report on Carcinogens

Crystalline Silica (CAS 14808-60-7) Known to Be Human Carcinogen.

Reproductive effects : This product is not expected to cause reproductive or developmental effects.

Germ cell mutagenicity : Not classified No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Teratogenicity : Not classified

STOT - single exposure : Not classified

STOT - repeated exposure : Not classified

Aspiration toxicity : Not an aspiration hazard.

Chronic effects : Prolonged inhalation may be harmful.

### Section: 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Environmental Effects : The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability** no data available

**Mobility:** no data available

**Bioaccumulative potential:** no data available

**Other information:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



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### Section: 13. DISPOSAL CONSIDERATIONS

- Disposal methods : Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- Contaminated packaging : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

#### Land transport (DOT):

Not regulated as dangerous goods.

#### Air transport (IATA)

Not regulated as dangerous goods

#### Sea transport (IMDG/IMO)

Not regulated as dangerous goods

### Section: 15. REGULATORY INFORMATION

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA list** : Not regulated.

**EPCRA - Emergency Planning and Community Right-to-Know Act:** Not listed.

**CERCLA Reportable Quantity:** Not listed.

**SARA 304 Extremely Hazardous Substances Reportable Quantity:** Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910. 1001-1050):** Not regulated.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D):**  
Not regulated.

#### 1986 (SARA) Hazard categories

Immediate Hazard - Yes

Delayed Hazard - No





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Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance:** Not listed.

**SARA 311/312 Hazardous:** Not listed.

**SARA 313 (TRI reporting):** Not regulated.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** Not regulated.

**Safe Drinking Water Act:** Not regulated.

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**  
Not listed

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))  
Crystalline Silica (CAS 14808-60-7)

**US. Massachusetts RTK - Substance List**

Calcium Hydroxide (CAS 1305-62-0)  
Calcium Oxide (CAS 1305-78-8)  
Crystalline Silica (CAS 14808-60-7)

**US. New Jersey Worker and Community Right-to-Know Act**

Calcium Hydroxide (CAS 1305-62-0)

**CALCIUM OXIDE (CAS 1305-78-8)**

Crystalline Silica (CAS 14808-60-7)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Calcium Hydroxide (CAS 1305-62-0)

**CALCIUM OXIDE (CAS 1305-78-8)**

Crystalline Silica (CAS 14808-60-7)

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition**

WARNING: This product contains a chemical known to the State of California to cause cancer

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Crystalline Silica (CAS 14808-60-7) Listed: October 1, 19



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County or Region	Inventory Name	On Inv.
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canda	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

#### Section: 16. OTHER INFORMATION

Revision Date : 02/20/2023  
Version Number : 1.0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.