



Safety Data Sheet

DriVisc 1

SECTION 1: Identification

1.1 Product identifier

Product name	DriVisc 1
Product number	DV1

1.3 Recommended use of the chemical and restrictions on use

Viscosifier

1.4 Supplier's details

Name	Downhole Chemical Solutions
Address	1 Cowboys Way #572 Frisco, Texas 75034
Telephone	469-466-1100

1.5 Emergency phone number(s)

1-888-255-3924 US (ChemTel)
1-813-248-0585 International (ChemTel)

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

Respiratory Sensitizer CAT 1

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word: WARNING

Hazard statement(s)

May form combustible dust concentrations in the air. This material can form dust which may cause skin or mucous membrane irritation. Symptoms may include redness, burning, and swelling. Although they may cause respiratory tract irritation, nuisance dust does not form scar tissue or affect the structure of air spaces in the lungs.

Precautionary statement(s)

Advice; Form slippery/greasy layers with water.

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2.3 Other hazards which do not result in classification

Slip hazard from spills.

EYE: Dust can cause eye irritation. Symptoms include stinging, redness, and swelling of the eyes.

SKIN: May cause skin irritation. Symptoms may include redness and swelling of the skin.

INGESTION: May cause irritation to the digestive tract. Toxicological properties have not been fully investigated. Seek medical attention.

INHALATION: This material is a dust or may produce dust. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

SYMPTOMS OF EXPOSURE: Signs of symptoms and of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: mouth and throat irritation (soreness, dry or scratchy feeling, cough). Some individuals may develop a respiratory allergic response to guar dust.

Developmental Information

There are no data available for assessing risk to the fetus from maternal exposure to this material.

Cancer Information

There is no information available. The chance of this material causing cancer is unknown. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components	
Guar Gum (CAS 9000-30-0)	98 - 100%

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous areas.
If inhaled	If symptoms develop, move the individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen., Keep the person warm and quiet: seek immediate medical attention.
In case of skin contact	Wash with plenty of water for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Take off contaminated clothing and wash it before reuse.
In case of eye contact	Rinse cautiously with water for 15 minutes with eyelids apart. Remove contact lenses, if present, and easy to do. Continue rinsing. Call a poison center or doctor if you feel unwell.
If swallowed	First aid is not normally required. If symptoms develop, seek medical attention.

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4.2 Most important symptoms/effects, acute and delayed

May cause mechanical eye and skin irritation. Inhalation of dust may cause nose and throat irritation, coughing and sneezing. Inhalation may cause sensitization and difficulty breathing. Ingestion may cause gastric upset.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

If inhaled and causes an allergic reaction, seek prompt medical attention. Seek immediate medical attention if any amount is ingested.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Regular foam, water fog, carbon dioxide, sand.

5.2 Specific hazards arising from the chemical

Dust may form explosive mixtures in air.

May form: carbon dioxide and carbon monoxide as Hazardous products of Combustion.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting with a full face piece in the positive pressure demand mode with appropriate turn-out gear and chemical-resistant personal protective equipment. Refer to the personal protective equipment section of this SDS.

Further information

Use water spray to cool unopened containers. Spills produce extremely slippery surfaces.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Warning: Do not touch or walk through spilled material. Spills can create very slippery surfaces. Wear respiratory protection if necessary. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection, see section 8.

6.2 Environmental precautions

Do not contaminate water

6.3 Methods and materials for containment and cleaning up

Stop the leak if you can do it without risk. Sweep up and shovel into suitable containers for disposal.

Reference to other sections

For disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Surfaces are very slippery from this product. Do not swallow. Do not breathe dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Since emptied containers retain product residue (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash it before reuse. Shower after work using plenty of soap and water. See Section 8 for information on Personal Protective Equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from incompatible substances.

Specific end use(s)

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Apart from the uses mentioned in Section 1, no other specific uses are stipulated. Stable under recommended storage conditions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Guar Gum	5mg/m³ TWA OSHA PEL (respirable) 15 mg/m³ TWA (total dust)
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8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practices. Wash hands and face before breaks and immediately after handling the product. Avoid contact with skin and eyes. Do not breathe dust. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Handle in accordance with good industrial hygiene and safety practices.

Eye/face protection

Safety glasses with side shields or goggles. Use equipment for eye protection tested and approved under appropriate government standards such as OSHA regulations (Consult your safety representative)

Skin protection

Wear protective gloves, such as Latex. Consult manufacturer specifications for further information.

Body protection

Wear protective clothing. Clothing with full-length sleeves and pants should be worn. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

In case of inadequate ventilation, wear respiratory protection. 3M dust respirator No. 8710 or 9900 is recommended, or NIOSH/MSHA jointly approved dust respirator. (See your safety equipment supplies)

Thermal hazards

No data available.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Yellow White Powder
Odor	Slight
Odor threshold	
pH	5.5-6.5 (1% Solution)
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	
Evaporation rate	Not applicable
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.

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Vapor pressure	Not applicable
Vapor density	No data available.
Density	No data available.
Relative density	
Solubility(ies)	Water
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	None
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Charge	No data available.
Oxidizing properties	The substance or mixture is not classified as oxidizing

Other safety information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Strong oxidizing agent may generate heat

10.4 Conditions to avoid

Preventing and mitigating the effect of fire and explosion

10.5 Incompatible materials

Not reported

10.6 Hazardous decomposition products

The product will not undergo hazardous polymerization. It may form irritating fumes and gases.

SECTION 11: Toxicological information

Information on toxicological effects

Acute oral toxicity

Guar Gum: Oral rat LD50; 9.4g/kg

Skin corrosion/irritation

Contact may cause dryness.

Serious eye damage/irritation

May cause irritation based on studies with laboratory animals

Respiratory or skin sensitization

Inhalation of dust may cause irritation of the nose, throat, and respiratory passages. Symptoms include coughing, sore throat, nasal congestion, sneezing, wheezing, and shortness of breath.

Germ cell mutagenicity

No data available.

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Carcinogenicity

None of the components of this product are listed as carcinogens or suspected carcinogens by OSHA, IARC or NTP.

SECTION 12: Ecological information

Toxicity

No data available

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

SECTION 13: Disposal Considerations

Disposal of the product

Waste Management Information: Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series

None listed.

RCRA U-Series

Non listed.

SECTION 14: Transport information

DOT (US)

Not Regulated

IMDG

Not Regulated

IATA

Not Regulated

SECTION 15: Regulatory information

15.1 Safety, health, and environmental regulations specific to the product in question

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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SARA 311/312 Hazards

Immediate

California Prop. 65 Components

None

HMIS Rating

HMIS RATINGS (Hazardous Materials Identification System)	
HEALTH	0
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no event shall Downhole Chemical Solutions be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages whatsoever arising, even if Downhole Chemical Solutions has been advised of the possibility of such damages.