



**MATERIAL SAFETY
DATA SHEET**

DG LCI

Chemical Product and Company Information

MANUFACTURER'S NAME DrillGreen Petroleum Products	EMERGENCY TELEPHONE NUMBER 361.570.5663
ADDRESS 6001 US Hwy 59 North Victoria, Texas 77905	INFORMATION TELEPHONE NUMBER 361.570.5661
	DATE PREPARED 1/29/13

COMPOSITION/ INFORMATION ON INGREDIENTS

Isopropanol	CAS# 67-63-0	Confidential
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HAZARDS IDENTIFICATION

Physical State and Appearance	Liquid
CERCLA Reportable Quantity	This product does not contain any Reportable Quantity (RQ) substance
Hazard Summary	Flammable Liquid
Routes of Exposure	Inhalation, Eye Contact, Skin Irritation

POTENTIAL HEALTH EFFECTS

Eye	Irritating to the eyes with possible permanent damage depending on the length of exposure and on the first aid action given. Symptoms may include stinging, tearing, redness and swelling.
Skin Contact	Can cause mild to severe skin irritation depending on the length of exposure and on the first aid action given. Symptoms may include redness and burning. Can cause allergic contact dermatitis in susceptible individuals.
Ingestion	Ingestion of this product may cause central nervous system depression, abdominal distress, with nausea, vomiting and diarrhea probable depending on the first aid action given.
Inhalation	Prolonged Inhalation of mist or vapor in excess of the recommended exposure limits can be harmful, causing nausea, irritation, dizziness, light-headedness, vomiting, fatigue, headaches or unconsciousness depending on the length of exposure and the first aid action given.



DG LCI (CONT.)

FIRST AID

Eyes	In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention.
Skin	Immediately remove contaminated clothing. Wash skin thoroughly with mild soap/water. Flush with like warm water for 15 minutes. For a large splash flood body under a shower. Seek medical attention if ill effect or irritation develops.
Ingestion	If swallowed, give luke warm water (pint) if victim is conscious. Do NOT induce vomiting; Risk of damage to lungs exceeds poisoning risk. Obtain medical attention. Prompt action is essential.
Additional Information	If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

FIRE MEASURES

FLAMMABLE PROPERTIES	FLAMMABILITY LIMITS
Flammability or the Product: Flammable	LFL: 2.0
Flash point: 53°F	UFL: 12.0

Extinguishing Media	Dry Chemical, CO ₂ , Foam
Fire & Explosion Hazards	This product releases vapors at normal ambient temperatures. When mixed with air and exposed to an ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source.
Fire Hazards in Presence of Various Substances	Open Flames/Sparks/Static. Heat
Special Remarks	Fight fire from a safe distance in a protected location. Heat may build pressure and rupture closed containers spreading the fire and increase the risk of burns and injuries. Use water spray/ fog for cooling, but avoid frothing / steam explosion. Burning liquid may float on water. Notify authorities if liquid enters a sewer/ public waters.
Fire-fighting equipment	Do not enter fire area without proper PPE, including NIOSH/MSHA approved self-contained breathing apparatus.



DG LCI (CONT.)

ACCIDENTAL RELEASE MEASURES (See Section 13 for Regulatory Information)

Small Spills	Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal.
Large Spills	Dike and prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal.
Other Statements	For indoor spills, evacuate employees and ventilate area. Eliminate all sources of spark or flame. Those responsible for control and recovery should wear protective equipment. Prevent flow/discharge into lakes, ponds, streams, waterways or public water supplies.
Additional Accidental Release Measures Remarks	Contaminated products/soil/water may be RCRA/OSHA hazardous waste. Landfill solids at permitted sites. Use registered transporters. Burn concentrated liquids in approved waste incinerators. Assure emissions and effluences comply with applicable regulations.

HANDLING AND STORAGE

Special Precautions	Danger! Flammable Liquid. May cause irritation to skin and eyes. Prolonged inhalation of vapor may be harmful. Do not use, store, spill or pour near heat, sparks or open flame. Keep container closed when not in use. Use with adequate ventilation. Do not take internally. Avoid prolonged or repeated breathing of vapor. Avoid contact with skin, eyes, or clothing. Empty containers may contain residual product. Do not reuse container unless properly reconditioned.
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EXPOSURE CONTROL/ PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT	
Eye/ Face	Chemical safety goggles
Skin Protection	Wear long sleeves to prevent repeated or prolonged skin exposure. Chemical resistant gloves. Chemical resistant boots or overshoes.
Respiratory Protection	Respirator use is not expected to be necessary under normal conditions of use.
Other Information	Natural rubber gloves
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the workstation location.



DG LCI (CONT.)

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	180 °F		
pH (aqueous solutions)	7.5 - 8.5	SP Gravity	1.005
Bulk density	8.38	Appearance	Clear, Amber Liquid
SOL in H2O	Soluble	Odor	Pungent
Pour Point	-10°F	Vapor Pressure	31.2 mm Hg @ 100 °F
Vapor Density	> 1.0 (Air = 1.0)	Viscosity	~25 cst @ 100°F
Flash Point	53°F TCC	Evaporation Rate	1.7 (Butyl Acetate = 1.0)

STABILITY AND REACTIVITY

Chemical Stability	This product is stable
Incompatibility with Various Substances	Avoid contact with strong oxidizers which can generate heat, fires, explosions and the release of toxic fumes.
Thermal Decomposition Products	In the event of combustion CO, CO ₂ and/or NO may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

TOXICOLOGICAL INFORMATION

Toxicity Studies	This product contains isopropanol. In concentrated form, this chemical has been reported in one animal study to be fetotoxic at levels of 2.5% in drinking water. No tetragenetic effects were, or have been reported. There are no reports of adverse reproductive effects in humans exposed to this chemical.
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DISPOSAL CONSIDERATIONS (See Section 13 for Regulatory Information)

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under the Resources Conservation and Recovery Act (RCRA) 40 CFR 261. Hazardous Waste D001.
As a hazardous liquid waste, it must be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to a licensed industrial waste landfill. A hazardous liquid waste can also be incinerated in accordance with local, state and federal regulations.



DG LCI (CONT.)

TRANSPORT INFORMATION

The proper shipping name and/or hazard class for this product may vary according to packaging, properties and mode of transportation. Typical proper shipping names for this product are:

All Containers:	Flammable Liquid, N.O.S.
UN/ID Number	UN-1993
Hazard Class	3, Flammable Liquid
Packing Group	III
Flash Point	53°F TCC
Hazardous Components	Isopropanol
RQ Lbs.	None
RQ Components:	None

U.S. REGULATIONS

SARA 311/312 MSDS Distribution Chemical Inventory-Hazard Identification: Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories.

Clean Air Act (CAA) 111 © Accidental Release Prevention Substance: Isopropanol- Section 111

Quantity (TPQ)

TSCA Inventory: All components are included or are exempted from listing on the US Toxic Status Substance Control Act Inventory.

This product does not contain any components that are subject to the reporting requirements of TSCA Section 12(b) if exported from the United States.

INTERNATIONAL REGULATIONS

Canada: All components are compliant with or are exempted from listing on the Canadian Domestic Substance list.

WHMIS (Canada): This product isn't controlled under WHMIS Regulations.

European Union: Not all components are included on the European Inventory of Existing Commercial Chemical Substances or the European List of Notified Chemical Substances.

DISCLAIMER OF LIABILITY

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