

DMG GILSONITE

SECTION 1. IDENTIFICATION

Product Identifier	DMG GILSONITE
Other Means of Identification	UINTAITE, GILSONITE, ASPHALTITE
Chemical Family	Naturally occurring hydrocarbon
Recommended Use	Additive to Drilling and Completion Fluids, printing ink, asphalt and foundry
Restrictions on Use	None Known
Initial Supplier Identifier	Integrity Chemical Solutions Inc. 205 Crystal Shores Drive Okotoks, Alberta T1S 2L1
Emergency Telephone Number	403.988.7695

SECTION 2. HAZARD IDENTIFICATION

Classification	Skin irritation - Category 3; Eye irritation - Category 2B; Specific target organ toxicity (single exposure) - Category 3
Physical hazards	May form combustible dust concentrations in air.
Health hazards	Causes mild skin irritation. Causes eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.
Environmental hazards	Not classified
Label Elements	
Signal word	WARNING!
Hazard statement	May form combustible dust concentrations in air.
Precautionary statement	
Prevention	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area.
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.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents and container in accordance with local, regional, national and international regulations.
Hazard(s) not otherwise classified (HNOC)	Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the skin, nose and throat.
Supplemental information	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (%)	Common name / Synonyms	Other identifiers
UINTAITE/GILSONITE	12002-43-6	100%		

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

SECTION 4. FIRST-AID MEASURES

Inhalation If respiratory irritation or discomfort is experienced, move to fresh air. If adverse symptoms develop, seek medical attention.

Skin Contact Wash with soap and water. If adverse symptoms develop, seek medical attention.

Eye Contact Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 15 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion Not expected to be a primary route of exposure.
If conscious, dilute with 2-3 glasses of water or milk. If ingestion irritation persists: seek medical advice/attention.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media Foam, Dry chemicals, Carbon dioxide (CO₂), water.

Specific Hazards Arising from the Product Can ignite if strongly heated. Combustible dust. Powder may form explosive dust-air mixture. Dust explosivity limit = 20 oz/1000ft³.
Combustion forms carbon dioxide and water vapour and may produce oxides of nitrogen. Incomplete combustion may produce carbon monoxide.

Special Protective Equipment and Precautions for Fire-Fighters Do not entry fire area without proper personal protective equipment including NIOSH approved self-contained breathing apparatus. Evacuate area and fight fire from a safe distance. Water spray may be used to keep fire-exposed containers cool.
Firefighters must wear appropriate breathing apparatus and clothing.

Firefighting equipment / instructions Use standard firefighting procedures and consider the hazards of other involved materials.

General Fire hazards Combustible. No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures Use the personal protective equipment recommended in Section 8 of this safety data sheet. Eliminate all ignition sources. Use grounded, explosion-proof equipment.

Methods for Containment and Cleaning Up Stop or reduce leak if safe to do so. Dike spilled product to prevent runoff. Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

Environmental Precautions It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid generating dusts. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Wear personal protective equipment to avoid direct contact with this chemical. Handle in accordance with good industrial hygiene and safety practice. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.
Conditions for Safe Storage	Store in an area that is: cool, dry, well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL	TWA	STEL
UINTAITE/GILSONITE	3mg/m ³	NA	5mg/m ³	

Notes	Dusts present no more hazard than common dust. An explosive limit of 5 mg/m ³ has been established for a worker who spends 8 hours in such an atmosphere. At greater levels than this, special precautions should be taken or exposure times reduced.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate Engineering Controls	Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.
Individual Protection Measures	
Eye/Face Protection	Wear safety glasses with side shields, goggles or face shield.
Skin Protection	Wear chemical protective clothing e.g. gloves, aprons and boots. Where long-term exposure to vapours, distillates or solids, resulting from heating to temperatures above 288°C can be anticipated, protective clothing is recommended.
Hand protection	Gloves made of nitrile, rubber or latex should be worn for prolonged or repeated contact. Wear long sleeves to prevent repeated or prolonged skin contact.
Other	Wear suitable protective clothing.
Respiratory Protection	Use a properly fitted particulate filter respirator to prevent exposure to airborne particles.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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	Black (solid), Brown (Powder)
Physical state	Solid
Odour	Slight hydrocarbon odour
Odour Threshold	Not available
pH	NA
Melting Point and Freezing Point	NA
Initial Boiling Point and Boiling Range	NA
Flash Point	316°C
Evaporation Rate	NA
Flammability (solid, gas)	NA
Upper and Lower Flammability or	NA

Explosive Limit	
Vapour Pressure	NA
Vapour Density	NA
(air = 1)	
Relative Density (water = 1)	1.04 - 1.06
Solubility in Water	Insoluble in water.
Solubility in Other Liquids	NA
Partition Coefficient, n-Octanol / Water (Log Kow)	NA
Auto-ignition Temperature	500°C
Decomposition Temperature	288°C
Viscosity	NA
Explosive properties	NA
Oxidizing properties	NA
Percent volatile	NA

SECTION 10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Keep away from heat, sparks, flame and excessive heat above 288°C
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon dioxide, carbon monoxide, oxides of nitrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation Skin contact Eye contact Ingestion

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Not expected to be chemically irritating but dust in eyes may be abrasive.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute Toxicity	
LC50	Not known.
LD50 (oral)	Not known.
LD50 (dermal)	Not known.
Notes	

Skin Corrosion / Irritation	Mild skin irritation.
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Serious Eye Damage / Irritation
STOT (Specific Target Organ Toxicity) - Single Exposure

Not expected to be chemically irritating but dust in eyes may be abrasive.

Aspiration Hazard
STOT (Specific Target Organ Toxicity) - Repeated Exposure

Inhalation:
 Should not be an irritant to respiratory tract at airborne concentrations below 5 mg/m³.
Ingestion:
 Not expected to be acutely toxic by ingestion.
 Not an aspiration hazard.
 No information was located for: STOT (Specific Target Organ Toxicity) - Repeated Exposure, Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects

Respiratory and/or Skin Sensitization

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

Carcinogenicity

Chemical Name	IARC	ACGIH®	OSHA
UINTAITE / GILSONITE	Not carcinogenic.	Not carcinogenic.	Not carcinogenic.

Notes

Reproductive Toxicity

Development of Offspring Not known
Sexual Function and Fertility Not known
Effects on or via Lactation Not known
Germ Cell Mutagenicity None known
Interactive Effects None known

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Persistence and Degradability
Bioaccumulative Potential
Mobility in Soil
Other Adverse Effects

No ecological information or environmental fate data is available.
 No data available.
 No data available.
 No data available.
 No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with federal, provincial and local government regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government guidelines.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local 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 *(section heading must appear; all content is optional)*

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
Not regulated					

Special Precautions Not applicable
Environmental Hazards
Transport in Bulk Not applicable
According to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations Canada Domestic Substances List (DSL): Yes
WHMIS 1988 Classification



Class D2B
D2B - Toxic (Skin irritant; Eye irritant)
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

SECTION 16. OTHER INFORMATION

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