

# Safety Data Sheet



## Martrex, Inc.

### Section 1: Chemical Product and Company Information

**Product name:** Gilsonite

**Supplier/ Further Information:** Martrex, Inc.

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Suite 535 MD 27,  
Chaska, Minnesota 55318

**Phone:** 952/933-5000

**Toll Free:** 800/328-3627

**FAX:** 952/933-1889

**Web:** [www.martrexinc.com](http://www.martrexinc.com)

**EPA Registration Number:** n/a

**CAS#:** 012002-43-6

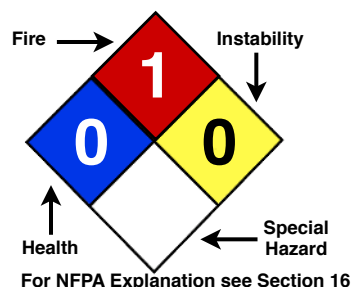
**EINECS#:** 310-127-6

**Chemical Name:** Gilsonite

**Synonyms:** Natural asphalt, Uintaite

**Chemical Family:**

**MSDS Number:** n/a



**24 Hour Emergency Phone - Chemtrec Transport: 1-800-424-9300; Medical: 1-800-441-3637**

### Section 2: Hazards Identification

#### Emergency Overview

**Dusts are subject to combustion. May cause eye, skin and respiratory tract irritation.**

**Avoid contact with eyes, skin and clothing. Avoid breathing airborne product.**

**Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.**

**Note:** Although Gilsonite is not a carcinogen, processes in which Gilsonite is brought to very high temperatures may alter its complex hydrocarbon structure and may produce carcinogenic substances.

#### GHS Classification:

Not a hazardous substance under Global Harmonized System.

**NFPA Ratings:** Health: 0 Flammability: 1 Reactivity: 0

**EU-SVHC:** no

**EU-directive 67/547 EU:** In accordance with the EU-directive 67/547 EU this product should be considered as a substance and is not hazardous.

#### Potential Health Effects:

**Primary Routes of Exposure / Entry:** Inhalation (breathing), eye contact, skin contact. (Ingestion is unlikely)

**Target Organs:** The substance may cause eye, skin and respiratory irritation, due to abrasion.

**Acute Exposure Symptoms:** None. Health injuries are not known or expected under normal use.

**Eye Effects:** Irritation

**Skin Effects:** Irritation

**Inhalation:** Irritation

**Ingestion:** Irritation

**Chronic Data:** Health injuries are not known or expected under normal use.

#### Chronic Effects:

May cause Lung Damage when inhaled in concentrations above OSHA exposure limits.

#### Chronic Toxicity Studies:

no data

**Medical Conditions Aggravated By Long-Term Exposure:**

Respiratory conditions: such as asthma emphysema

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### Section 3: Composition/Information on Ingredients

Non Hazardous Components	CAS <sup>(A)</sup> /EINECS <sup>(B)</sup>	%	OSHA PEL	OSHA STEL	OSHA CEIL
Hydrocarbon-black solid	012002-43-6 <sup>(A)</sup> 310-127-6 <sup>(B)</sup>	100%	5mg/m <sup>3</sup>	10mg/m <sup>3</sup>	no data
	<b>OTHER LIMITS</b>	<b>RTECS#</b>	<b>ACGIH TLV</b>	<b>ACGIH STEL</b>	<b>ACGIH CEIL</b>
	See Section 15	no data	no data	no data	no data

### Section 4: First Aid Measures

**Inhalation:** Remove to fresh air. Obtain medical attention if breathing difficulty persists.

**Eye Exposure:** Flush with lukewarm water for 15 minutes. Remove contact lenses. Get medical attention.

**Skin Exposure:** Not expected to require first aid measures. Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water. Get medical attention if discomfort continues.

**Ingestion:** Though not expected to be a primary route of exposure, if ingestion occurs, dilute with 2-3 glasses of water or milk if conscious. Do NOT induce vomiting unless directed to do so by a physician. If subject is unconscious do not give anything by mouth nor induce vomiting. Consult a physician.

**NOTE TO THE PHYSICIAN:** Treat symptomatically and supportively.

### Section 5: Fire Fighting Measures

**Flammability Classification:** Dusts are subject to combustion

**NFPA Ratings:** Health: **0** Flammability: **1** Reactivity: **0**

**Flash Point (COC):** 315°C

**Auto-ignition Temperature:** no data

**Lower explosion limit (LEL):** no data

**Upper explosion limit (UEL):** no data

**Extinguishing Media:** CO<sub>2</sub>. Dry chemical foam. Water fog.

**Unusual Fire and Explosive Hazards:** no data

**Hazardous Decomposition Materials:** Carbon dioxide. Nitrogen oxides. Carbon monoxide.

**Fire-Fighting Instructions:** For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Personal Protective Equipment:** Wear suitable protective clothing. Wear self contained breathing apparatus.

### Section 6: Accidental Release Measures

**Spill and Leak Procedures:** Wear proper protective equipment. See Section 8.

**Containment of Spill:** Avoid generating dust. Transfer to a closed container for disposal.

**Cleanup and Disposal of Spill:** Cleanup and Dispose in a safe manner in accordance with local/national/international regulations.

**Environmental and Regulatory Reporting:** Follow local/national/international regulations.

### Section 7: Handling and Storage

**Handling:** Wear proper protective equipment. See Section 8 Any potential or ignition should be moved prior to pulverizing or other process resulting in dust generation. Avoid raising any powdered material into dust explosion hazard.

**Storage:** Store in dry area. Incompatible products: Oxidizing agents. Store in accordance with local/national/international regulations.

**REGULATORY REQUIREMENTS:** See Section 8 for employee exposure controls and Section 15 for other regulatory requirements.

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## Section 8: Exposure Controls / Personal Protection

**Ventilation Protection:** Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to reduce air contamination and keep worker exposure below OSHA limits. Any potential for ignition should be moved prior to pulverizing or other process resulting in dust generation.

**Exposure Limits:** OSHA PEL: 5mg/m<sup>3</sup> OSHA STEL: 10mg/m<sup>3</sup>

**Respiratory Protection:** Approved dust or mist respirator should be used if airborne particulate is generated when handling this material.

**Eye Protection:** Wear safety glasses when dust is a problem.

**Skin Protection:** Wear appropriate clothing, gloves to prevent repeated or prolonged skin contact.

**Other Protective Clothing and Equipment:** no data

**Hygienic Work Practices:** Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work. Keep the working area as clean and tidy as possible. Change work clothes daily if there is any possibility of contamination.

## Section 9: Physical and Chemical Properties

**Chemical Name:** Gilsonite

**Physical State:** Solid

**Color and Appearance:** black lumps or powder

**Odor:** None

**Odor Threshold:** no data

**pH (in water):** Not applicable

**Specific Gravity:** no data

**Vapor Pressure:** no data

**Vapor Density:** (Air=1): no data

**Density:** no data

**Volatiles by Volume:** no data

**Boiling Point:** Not determined.

**A Flash Point (COC):** 315°C

**Softening Point:** no data

**Melting Point:** 140 – 205°C

**Evaporation Rate:** no data

**Solubility in water:** no data

**Other Solubilities:** no data

**Chemical Formula:** no data

**Formula Wt:** no data

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable X Unstable     

**Hazardous Polymerization:** None known

**Conditions to Avoid:** Hazard of dust explosions. Avoid heat, sparks, open fire and oxidizing conditions.

**Chemical Incompatibility:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide. Carbon dioxide. Oxides of nitrogen.

## Section 11: Toxicological Information

**Acute Data:** None. Health injuries are not known or expected under normal use.

**Eye Effects:** Irritation (due to abrasion as with any inert dust).

**Skin Effects:** Irritation (due to abrasion as with any inert dust).

**Oral LD<sub>50</sub>:** No data (Not a likely route of exposure.)

**Dermal LD<sub>50</sub>:** no data

**Inhalation LC<sub>50</sub>(rat):** no data

**Skin Sensitization:** no data

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**Chronic Data:** None. Health injuries are not known or expected under normal use.

**Chronic Effects:**

May cause Lung Damage if inhaled in concentrations above OSHA exposure limits.

**Chronic Toxicity Studies:** no data

**Mutagenicity Data:** No data available.

**Reproductive and Teratological Data:** no data

**Carcinogenicity Data:** No evidence found.

**NTP:** no data **OSHA:** no data **IARC Monograph:** no data **Not Listed:**

**Section 12: Ecological Information**

**Eco-acute Toxicity:** no data

**Environmental Fate:** no data

**Section 13: Disposal Considerations**

**Waste Management:** This product does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc, may render the resulting materials hazardous. Empty containers retain residues. All labeled precautions must be observed.

**Disposal Regulatory Requirements:** Dispose in accordance with local/national/international regulations.

**Section 14: Transport Information**

**General Information:** Not classified.

**Section 15: Regulatory Information**

**ECC Labeling:** Not classified.

The contents and format of this MSDS are in accordance with EEC Commission Directive 93/112/EEC.

**Section 16: Other Information**

**Acronyms**

**ACGIH** - American Conference of Governmental Industrial Hygienists

**ANSI** - American National Standards Institute

**CAS** - Chemical Abstracts Service

**CERCLA** - Comprehensive Environmental Response, Compensation & Liability Act of 1980

**CFR** - Code of Federal Regulations

**CHEMTREC** - Chemical Transportation Emergency Center

**CPR** - Controlled Products Regulations

**CWC** - Chemical Weapons Convention

**DOT** - U.S. Department of Transportation

**DSL** - Canadian Domestic Substance List

NFPA Rating Explanation Guide					
Rating Number	Health Hazard	Flammability Hazard	Instability Hazard	Rating Symbol	Special Hazard
4	Can be lethal	Will vaporize and readily burn at normal temperatures	May explode at normal temperatures and pressures	ALK	Alkaline
3	Can cause serious or permanent injury	Can be ignited under almost all ambient temperatures	May explode at high temperature or shock	ACID	Acidic
2	Can cause temporary incapacitation or residual injury	Must be heated or high ambient temperature to burn	Violent chemical change at high temperatures or pressures	BIO	BioHazard
1	Can cause significant irritation	Must be preheated before ignition can occur	Normally stable. High temperatures make unstable	COR	Strong Corrosive
0	No Hazard	Will not burn	Stable	CRYO	Cryogenic
				OXY	Oxidizer
				☢	Radioactive
				W	Reacts violently or explosively with water
				W OX	Reacts violently or explosively with water or oxidizer

*This chart for reference only - For complete specifications consult the NFPA Standard*

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**EHS** - Extremely Hazardous Substance

**EINECS**- European Inventory of Existing Commercial Chemical Substances

**EPA** - U.S. Environmental Protection Agency

**HMIS** - Hazardous Material Identification System

**IARC** - International Agency for Research on Cancer

**LEL/UEL** - Lower and Upper Explosive Limit

**mg/m<sup>3</sup>** - Milligrams per cubic meter

**NAERG** - North American Emergency Response Guidebook

**NIOSH** - National Institute of Occupational Safety and Health

**NFPA** - National Fire Protection Association

**NTP** - National Toxicology Program

**OSHA** - Occupational Safety and Health Administration

**PEL** - Permissible Exposure Limit (set by OSHA)

**PPE** - Personal Protective Equipment

**RCRA** - Resource Conservation and Recovery Act of 1976

**SARA** - Superfund Amendments and Reauthorization Act

**SDS** - Safety Data Sheet

**STEL** - Concentration to which workers can be exposed continuously for a

**short** period of time without suffering from irritation, irreversible tissue damage or narcosis of sufficient degree to increase the likelihood of accidental injury, impair self-rescue or materially reduce work efficiency.

**SVHC**: Substance of very high concern

**TDG** (Canadian): Transport of Dangerous Goods Regulations

**TLV** - Threshold Limit Value (set by ACGIH)

**TWA** - 8-hour Time Weighted Average

**TSCA** - US Toxic Substance Control Act

**WHMIS** - Workplace Hazardous Material Information System


**SDS Issue Date:** no data

**Revised Date:** 4-15-2015

**Supersedes:** 4-15-2009

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### GHS Pictograms and Hazards

<p><b>Health Hazard</b></p>  <ul style="list-style-type: none"> <li>• Carcinogen</li> <li>• Mutagenicity</li> <li>• Reproductive Toxicity</li> <li>• Respiratory Sensitizer</li> <li>• Target Organ Toxicity</li> <li>• Aspiration Toxicity</li> </ul>	<p><b>Flame</b></p>  <ul style="list-style-type: none"> <li>• Flammables</li> <li>• Pyrophorics</li> <li>• Self-Heating</li> <li>• Emits Flammable Gas</li> <li>• Self-Reactives</li> <li>• Organic Peroxides</li> </ul>	<p><b>Exclamation Mark</b></p>  <ul style="list-style-type: none"> <li>• Irritant (skin and eye)</li> <li>• Skin Sensitizer</li> <li>• Acute Toxicity (harmful)</li> <li>• Narcotic Effects</li> <li>• Respiratory Tract Irritant</li> <li>• Hazardous to Ozone Layer (Non-Mandatory)</li> </ul>
<p><b>Gas Cylinder</b></p>  <ul style="list-style-type: none"> <li>• Gases Under Pressure</li> </ul>	<p><b>Corrosion</b></p>  <ul style="list-style-type: none"> <li>• Skin Corrosion/ Burns</li> <li>• Eye Damage</li> <li>• Corrosive to Metals</li> </ul>	<p><b>Exploding Bomb</b></p>  <ul style="list-style-type: none"> <li>• Explosives</li> <li>• Self-Reactives</li> <li>• Organic Peroxides</li> </ul>
<p><b>Flame Over Circle</b></p>  <ul style="list-style-type: none"> <li>• Oxidizers</li> </ul>	<p><b>Environment (Non-Mandatory)</b></p>  <ul style="list-style-type: none"> <li>• Aquatic Toxicity</li> </ul>	<p><b>Skull and Crossbones</b></p>  <ul style="list-style-type: none"> <li>• Acute Toxicity (fatal or toxic)</li> </ul>

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