



# Material Safety Data Sheet

Producer/ Owner: Kardoost Company

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## 1. Identification of the product

**Trade name: Gilsonite**

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## 2. Information on ingredients

This substance is not hazardous.

In accordance with the EU-directive 67/548 EU this product should be considered as a substance and is not hazardous.

**Substance name Value(s) CAS nr / EC nr / EC annex I nr Symbol (s) R-Phrase(s)**

Hydrocarbon-black solid: 100% 012002-43-6 / 310-127-6 / NOT CLASS.

Annex I-nbr. (Subsi) Not classified.

CAS numbers (s) 012002-43-6 / 310-127-6 / NOT CLASS.

Synonyms Natural asphalt, Uintaite, Natural Bitumen

Impurities contributing to dangerous aspect: None

## 3. Hazards identification

Main hazards: None under normal conditions.

Risk Phrases: None.

Specific Hazards: None.

Symptoms relating to use: The substance should not be swallowed.



#### 4. First aid measures

**Emergency medical treatment:** Generally no medical treatment required.

First aid

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

**Skin contact:** Not expected to require first aid measures. Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water.

**Eye contact:** Flush with lukewarm water for 15 minutes. Remove contact lenses.

**Ingestion:** Not expected to be a primary route of exposure.

**Note to physician:** Treat symptomatically. Note the nature of this product.

#### 5. Fire – fighting measures.

**Fire / explosion:** Not flammable.

**Extinguishing media:**

Suitable: CO2 Dry chemical foam, Water fog.

Protection for firemen: Wear suitable protective clothing.

Hazardous combustion gasses or products: Carbon dioxide, Nitrogen oxides, Carbon monoxide.

#### 6. Accidental release measures.

Personal precautions: See Heading 8.

**Environmental precautions**

**After spillage / leakage**

- On soil: Transfer to a closed container for disposal.

- On water: It is best not to dispose in open waters.

Disposal: No specific requirements, dispose in accordance with local/national regulations.



## 7. Handling and storage.

Precautions in handling and storage: Any potential or ignition should be moved prior to pulverizing or other process resulting in dust generation.

### Technical measures

Advice for safe handling: Avoid raising any powdered material into dust explosion hazard.

Incompatible products: Oxidizing agents.

Technical measures: No special requirements.

Suitable storage circumstances: Store in an enclosed and dry area.

Storage – away from: No special requirements.

Recommended packing materials: laminated bags.

## 8. Exposure controls / personal protection.

**Technical measures:** Ventilate area.

Any potential or ignition should be moved prior to pulverizing or other process resulting in dust generation.

### Exposure controls

TLV-TWA [mg/m<sup>3</sup>]: 5 mg/m<sup>3</sup>

TLV-STEL [mg/m<sup>3</sup>]: 10

PEL-OSHA [mg/m<sup>3</sup>]: 5 mg/m<sup>3</sup>

Personal protection: No special requirements.

-Respiratory protection: Approved dust or mist respirator should be used if airborne particulate is generated when handling this material, only at high concentrations.

-Skin and body protection: Not required.

-Hand protection: Not required. Use gloves if desired.

-Eye protection: Wear safety glasses when dust is a problem.

Industrial hygiene: 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 as tidy as possible.

## 9. Physical and chemical properties.

Physical state: Solid

Form: Lumps,

Colour: Black

Odour: None.

PH value: Not Applicable.

Softening Point [°C]: 190 – 225 C

Boiling point [°C]: Not Applicable.

Decomposition temperature [°C]: No data available.



## 10. Stability and reactivity.

Hazardous reactions: None known.

Stability: Stable.

Conditions to avoid: Avoid heat, sparks, humidity, open fire and oxidizing conditions.

Materials to avoid: Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Oxides of nitrogen.

## 11. Toxicological information.

Toxicity information: Health injuries are not known or expected under normal use.

Acute toxicity: None.

Over sensitiveness: No evidence found.

Carcinogenicity: No evidence found.

Mutagenicity: No data available.

Reproductive toxicity: No data available.

Local effects: No evidence found.

## 12. Ecological information

Toxicity information: Health injuries are not known or expected under normal use.

Acute toxicity: None.

Over sensitiveness: No evidence found.

Carcinogenicity: No evidence found.

Mutagenicity: No data available.

Reproductive toxicity: No data available.

Local effects: No evidence found.

## 13. Disposal considerations

Residues: Dispose in a safe manner in accordance with local/national regulations.

Contaminated packaging: Dispose in a safe manner in accordance with local/national regulations.

## 14. Transport Information

Containers should be kept closed in order to minimize contamination. Keep from extreme heat and open flames and make sure the material does not come into contact with water and acids. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or reusing.



### 15. Regulatory information

EEC Labelling: Not classified.

### 16. Other information

#### Chemical analysis of the samples: The – Kardoost - No. 1:

OXIDES	PTC
SiO <sub>2</sub>	0.49
Al <sub>2</sub> O <sub>3</sub>	0.13
Fe <sub>2</sub> O <sub>3</sub>	0.02
TiO <sub>2</sub>	0.01
CaO	0.18
MgO	n.d.
Na <sub>2</sub> O	0.01
K <sub>2</sub> O	0.001

#### Elements

C	85.22 %
S	3.09 %
O	1.49 %
H	5.97 %
N	0.77 %
ASH	2.24 %
TOTAL	99.61



**Composition:**

Carbon	84.92 Min .(WT.PERCENT)
Sulphur	2.45 Min
Hydrogen	3.15 Min
Oxygen	1.56 Min
Nitrogen	0.45 Min
Solubility In Toluene	20.83 Approx.
Solubility In CS <sub>2</sub>	41.74 +/- 1Min.
Solubility In Benzene	35.76 Min
Solubility In Methanol	1.05 Min
Solubility In Ethanol	0.87 Min
Moisture	0.09 Min
Softening Point	170-225DEG. CEN.
Density (Srec. Grav. )	0.98 g per cubic centimetre
Viscosity	Only in Solutin

**DISCLAIMER OF LIABILITY:** The information in this MSDS was obtained from several tests on different samples which is similar to tests done in other countries. The conditions or methods of handling storage, use or disposal of the product are beyond our control and responsibility after the product is shipped. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. **End of Document**