

# Material Safety Data Sheet

## Graphite Powder

Revision Date: 01/12/2010

Date Issued: 11/24/2006

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

<b>Product name</b>	Graphite
<b>Product code</b>	CP-0019-HP
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131 – 898390
<b>Fax</b>	+49 (0)7131 – 89839109
<b>Emergency telephone</b>	+49 (0)179 – 5322578
<b>Email</b>	msds@iolitec.de

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification (67/548/EEC or 1999/45/EC)

Irritating to eyes and respiratory system.

##### Classification (REGULATION (EC) No 1272/2008)

Serious eye damage/Eye irritation, Category 2, H319

Specific Target Organ Toxicity - Single exposure: Respiratory tract irritation, Category 3, H335

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### 2.2 Label elements

#### Labelling (67/548/EEC or 1999/45/EC)

#### Hazard description:

#### Label for supply



Xi, Harmful

#### Risk phrases

R36/37: Irritating to eyes and respiratory system.

#### Safety phrases

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36: Wear suitable protective clothing

#### Labelling (REGULATION (EC) No 1272/2008, GHS)

#### *Hazard statements*



Warning

#### H-phrases

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

#### *Precautionary statements*

#### P-phrases

P261: Avoid breathing dust/fume/gas/mist/vapours/spray .

P280: Wear protectic gloves/protective clothing/eye protection/face protection.

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P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredient name</b>	Graphite powder
<b>CAS No.</b>	7782-42-5
<b>Empirical Formula</b>	C
<b>Molecular weight</b>	12.01 amu

### 4 FIRST AID MEASURES

<b>General</b>	Contaminated clothing should be removed and washed before being reused.
<b>Inhalation</b>	Remove from exposure and move to fresh air immediately. Get medical aid.
<b>Ingestion</b>	Get medical aid. Wash mouth out with water.
<b>Skin</b>	Get medical aid. Flush skin with plenty of water and soap and rinse thoroughly.
<b>Eyes</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

### 5 FIRE FIGHTING MEASURES

<b>Extinguishing Media</b>	CO <sub>2</sub> , extinguishing powder or water.
<b>Unusual fire &amp; explosion hazards</b>	Carbon monoxide (CO) can be released in case of fire

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### Protective measures in fire

Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

## 6 ACCIDENTAL RELEASE MEASURES

### General Information

Use proper personal protective equipment

### Spills/Leaks

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Do not let this chemical enter the environment without proper governmental permits.

## 7 HANDLING AND STORAGE

### Handling

Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

### Storage

Store in a cool, dry place. Store in a tightly closed container. Good ventilation at the workplace is required. Store away from oxidizing agents, from halogens, from acids.

## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Engineering Controls

Use adequate chemical fume hood designed for hazardous chemicals.

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### Exposure Limits

Graphite (mg/m<sup>3</sup>)

ACGIH TLV: 2; Belgium TWA 2.5; Finland TWA 5; France VME 2; Germany MAK 6; Ireland TWA 5; Korea TLV 2; Netherlands MAC-TGG 2; Poland TWA 2; Sweden NGV 5 (dust); Switzerland MAK-W 2.5; United Kingdom 5-LTEL; USA PEL 15 mppcf

### Personal Protective Equipment

**Eyes**

Wear chemical splash goggles.

**Skin**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing**

Wear appropriate protective clothing to prevent skin exposure

**Respirators**

Wear appropriate respirator when high concentrations are present

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

Solid

**Color**

Black

**Odor/taste**

No characteristic odor.

**Melting Point**

3652-3697 °C

**Boiling Point**

N/A

**Density:**

2.25 g/cm<sup>3</sup>

## 10 STABILITY AND REACTIVITY

**Chemical Stability**

Stable under normal temperatures and pressures.

**Conditions to Avoid**

Incompatible materials, dust generation.

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**Incompatibilities with Other Materials** Strong oxidizing agents, acids, Halogens, Interhalogens, Alkali metals.

**Hazardous Decomposition Products** Carbon Monoxide (CO) and Carbon Dioxide (CO<sub>2</sub>)

### 11 TOXICOLOGICAL INFORMATION

<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	causes irritation.
<b>Eyes</b>	causes irritation.
<b>Inhalation</b>	Inhalation of graphite has caused pneumoconiosis in exposed workers

### 12 ECOLOGICAL INFORMATION

<b>Environmental hazards</b>	Do not empty into drains.
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### 13 DISPOSAL CONSIDERATIONS

<b>Disposal method</b>	Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.
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### 14 TRANSPORT INFORMATION

<b>General</b>	Not classified as dangerous for transport purposes.
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<b>UN No.</b>	0
<b>Road transport notes</b>	Not classified as dangerous for road transport.
<b>Rail transport notes</b>	Not classified as dangerous for rail transport.
<b>Sea transport notes</b>	Not classified as dangerous for sea transport.
<b>Air transport notes</b>	Not classified as dangerous for air transport.

### 15 REGULATORY INFORMATION

In accordance with local and national regulations.

### 16 OTHER INFORMATION

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