

# Safety Data Sheet in accordance with Global Harmonized System

Date of printing : 11 April 2017



distribuito da:  
ANDREA GALLO DI LUIGI S.r.l.  
azienda fondata nel 1892  
Via Erzelli, 9 - 16152 Genova (Italy)  
Tel. 010.650.29.41  
[www.andreagallo.it](http://www.andreagallo.it)

## SECTION 1 : Identification of the substance / mixture and of the company / undertaking

### 1.1 Product identifier

GRAFITE IN SCAGLIE MADAGASCAR

Natural mineral graphite in flakes ( a mineral form of the element carbon )

Exempted from the obligation to REACH registration in accordance with Annex II to regulation No. 1907/2006

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector : Refractories industry

Type of use : High-temperature crucibles

Reducing agent - Lubricant - Electrical conductor

### 1.3 Details of the supplier of the Safety Data Sheet

Distributor :

Andrea Gallo di Luigi Srl

via Erzelli, 9

16152 Genova

Telephone No. 010 6502941

e-mail : [info@andreagallo.it](mailto:info@andreagallo.it)

### 1.4 Emergency telephone number

+852 25302089

## SECTION 2 : Hazards identification

### 2.1 Classification of the substance or mixture

**GHS Classification :**

The product is not classified as hazardous according to GHS

No R- or H-Phrases

**Regulation (EC) No. 1272/2008 :**

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

**Classification according to Directive 67/548/EEC or 1999/45/EC :**

Not classidied



## 2.2 Label Elements

**Symbol(s) :**

None

**Signal Word :**

None

**Hazard Statements :**

None

**Precautionary Statements :**

P261 - Avoid breathing dust / fume / gas / mist / vapors / spray

P280 - Wear eye protection / face protection

P285 - In case of inadequate ventilation wear respiratory protection

P305 + P338 + P351 - IF IN EYES : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 - IF ON SKIN : Wash with plenty of soap and water.

**Environment :**

Natural mineral graphite in flakes is not expected to be dangerous to the environment.

### SECTION 3 : Composition / information on ingredients

Natural mineral graphite in flakes ( a mineral form of the element carbon )

CAS No. 7782-42-5

EINECS No. 231-955-3

### SECTION 4 : First aid measures

**Inhalation :**

Remove from exposure and move to fresh air immediately.

If not breathing give artificial respiration.

If breathing is difficult oxygen may be necessary.

Seek medical attention if symptoms persist.

**Eyes :**

Immediately rinse eyes adequately with water or sterile eye wash.

Do not rub eye.

Seek medical attention if any irritation persists.

**Skin :**

Immediately wash skin with mild soap and water.

Seek medical attention if any irritation develops and persists

Remove contaminated clothing and shoes.

Wash clothing and clean shoes before reusing.



### **Ingestion :**

Rinse mouth, throat and nose with water.  
Never give anything by mouth to an unconscious person.  
Get medical aid immediately.

## **SECTION 5 : Fire-fighting measures**

Graphite flake does not burn or support combustion under normal conditions. However very fine graphite dust can form explosive mixtures with air when exposed to high energy ignition sources. Avoid contact between graphite dust and high energy ignition sources.

### **5.1 Extinguishing media**

Spray water or any means suitable to extinguish surrounding fire.

### **5.2 Hazardous combustion products**

When heated graphite can react with oxygen to produce CO<sub>2</sub> and CO ( carbon dioxide and carbon monoxide).

### **5.3 Advice for fire-fighters**

Wear full protective clothing and self-contained breathing apparatus with full face piece operated in positive pressure mode.

## **SECTION 6 : Accidental release measures**

### **6.1 Personal precautions**

Ensure adequate ventilation.  
Avoid dust generation.  
Remove ignition sources.  
Wear protective equipment to avoid inhalation of dust and contact with eyes and skin ( see section 8 ).

### **6.2 Environmental precautions**

No specific precautions.  
Do not allow to enter drains or water ways, groundwater or soil.

### **6.3 Methods for cleaning up**

Avoid or minimize generation of dust.  
Use vacuum cleaner properly grounded to avoid static charges, or moisten dust with water fog before it is collected with shovel and/or broom.  
Containerize for reclamation or disposal ( approved containers sealed securely and labeled ).  
For waste disposal see section 13.

## SECTION 7 : Handling and storage



distribuito da:  
ANDREA GALLO DI LUIGI S. r. l.  
[azienda fondata nel 1892](#)  
Via Erzelli, 9 - 16152 Genova (Italy)  
Tel. 010.650.29.41  
[www.andreagallo.it](http://www.andreagallo.it)

### 7.1 Precautions for safe handling

Use work methods which avoid excessive dusting.  
Provide good ventilation.  
Keep the work area clean.  
Wear appropriate personal protective equipment to avoid inhalation of dust and contact with eyes and skin.

Graphite is a conductor of electricity.  
Exercise caution when handling graphite in areas where contact with electrical circuitry is possible.  
Take precautionary measures against static discharges.  
Keep away from any ignition sources.

Graphite reacts violently with very strong oxidizing agents such as fluorine, chlorine dioxide, and potassium peroxide. Avoid contact with strong oxidizing agents.

### 7.2 Conditions for safe storage

Use adequate dust collection / ventilation.  
Keep the place clean.  
Store away from any sources of ignition.  
Store away from oxidizing agents.  
Keep container closed.

### 7.3 Specific end uses

No further recommendations.

## SECTION 8 : Exposure controls / personal protection

### 8.1 Exposure limit values

**Workplace exposure limits ( Health and Safety Executive EH40/2011 8-hours TWA reference period )**

Carbon : 10 mg / m<sup>3</sup> inhalable dust  
Carbon : 4 mg / m<sup>3</sup> respirable dust  
Silica : 0,1 mg / m<sup>3</sup> respirable crystalline

### 8.2 Exposure controls

#### Engineering controls :

Minimize the risk of inhalation of dust.  
Use adequate ventilation equipment to keep airborne particulate within acceptable exposure limits.  
Mechanical ventilation or local exhaust ventilation may be required.  
Keep work area clean.  
Facilities storing or utilizing this material should be equipped with eye wash stations and showers including soap, skin cleanser and fatty cream.

**Respiratory protection :**

Wear personal protective equipment chosen according to CEN standards and in discussion with the supplier of the personal protective equipment.

**Hand protection :**

Wear appropriate gloves to prevent cuts and abrasions.  
Appropriate gloves can be recommended by the gloves supplier.

**Eye protection :**

Wear safety glasses with side shields or safety goggles.

**Skin protection :**

Wear protective clothing and shoes to minimize contact with the skin.  
Observe good personal hygiene measures such as washing after handling the material and before eating, drinking or smoking.  
Routinely wash work clothing and protective equipment.

**SECTION 9 : Physical and chemical properties****9.1 General information**

**Physical state :** Solid

**Colour :** Silver grey

**Odour :** No characteristic odour

**9.2 Important health, safety and environmental information**

**pH :** Not applicable

**Boiling point :** Not applicable

**Flash point :** Not applicable

**Flammability :** Not applicable

**Vapour pressure :** Not applicable

**Apparent density :** 46 to 60

**Water solubility :** Insoluble

**Other solubility :** No data available

**Partition coefficient ( n-octanol / water ) :** No data available

**Viscosity :** Not applicable

**Vapour density :** Not applicable

**Evaporation rate :** Not applicable

**9.3 Other information**

**Melting point :** Not applicable

## SECTION 10 : Stability and reactivity

Graphite is stable and almost inert under normal conditions of use and storage.



distribuito da:  
ANDREA GALLO DI LUIGI S.r.l.  
[azienda fondata nel 1892](#)  
Via Erzelli, 9 - 16152 Genova (Italy)  
Tel. 010.650.29.41  
[www.andreagallo.it](http://www.andreagallo.it)

### 10.1 Conditions to avoid

When exposed to extremely high energy ignition sources fine graphite dust can form explosive mixtures with air. Avoid contact between graphite dust clouds and high energy ignition sources.

Graphite reacts vigorously with strong oxidizing agents such as fluorine, chlorine dioxide, liquid potassium and potassium peroxide. Avoid contact with strong oxidizing agents.

### 10.2 Materials to avoid

Strong oxidizing agents.

### 10.3 Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide (CO)  
Unidentified compounds

## SECTION 11 : Toxicological information

### Inhalation :

High concentrations of dust may irritate respiratory system and cause coughing and shortness of breath. Chronic exposure to high concentrations of graphite dust may cause lung diseases ( pneumoconiosis ). Trace amounts of silica may lead to lung diseases ( silicosis or cancer ). Emphysema, Asthma, or other respiratory problems may be aggravated by prolonged exposure.

### Eye contact :

May cause irritation and redness.

### Skin contact :

May cause irritation and redness.

### Ingestion :

May cause irritation, nausea and vomiting, but is not considered toxic.

### Carcinogenicity :

Graphite alone is not listed as a carcinogen. However it may contain impurities of crystalline silica which is suspected human carcinogen.

### Mutagenicity :

No data available.

### Toxicity for reproduction :

No data available.

## SECTION 12 : Ecological information

Natural mineral graphite is not expected to be hazardous to the environment.



distribuito da:  
ANDREA GALLO DI LUIGI S.r.l.  
[azienda fondata nel 1892](http://azienda.fondata.nel.1892)  
Via Erzelli, 9 - 16152 Genova (Italy)  
Tel. 010.650.29.41  
[www.andreagallo.it](http://www.andreagallo.it)

### 12.1 Ecotoxicity

No data available.

### 12.2 Mobility

Insoluble in water - Will sediment in water systems.

### 12.3 Persistence and degradability

No data available.

### 12.4 Bioaccumulative potential

No data available.

### 12.5 Results of PBT assesment

Not applicable.

### 12.6 Other adverse effects

None known.

## SECTION 13 : Disposal considerations

Dispose of waste and residues in accordance with local Authority requirements.

European waste code 10 02 99.

## SECTION 14 : Transport information

IMDG : Not regulated

ADR : Not regulated

RID : Not regulated

IATA : Not regulated



## **SECTION 15 : Regulatory information**

This substance has not been classified as dangerous according to the regulation in force.

Natural mineral graphite in flakes is exempted from the obligation to REACH registration in accordance with regulation (EC) No. 1907/2006 amended by commission regulation (EC) No. 987/2008 annex II ( mineral which occurs in nature and not chemically modified ).

## **SECTION 16 : Other information**

We advise the users of this substance to study this material safety data sheet and become aware of product hazards and safety information.

Users should notify their employees, agents and contractors accordingly.

The information and recommendations contained herein are based on our present state of knowledge and upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to this product. The information contained herein should be used to make an independant determination of the methods to safeguard workers and the environment. Any user of this product is responsible for determining the suitability for its particular application.