

PRODUCT NAME: ABRO Powder Graphite  
PRODUCTNUMBER/SIZE: GP-15

Revision Date: 12/04/2020

**SECTION 1**  
**Identification of the Substance and of the Company/Undertaking**

MANUFACTURER'S NAME: ABRO INDUSTRIES, INC.  
ADDRESS: 3580 Blackthorn Court  
South Bend, IN 46628  
USA  
PRODUCT DESCRIPTION: ABRO Powder Graphite  
COMPANY PHONE: 574-232-8289  
EMERGENCY 24-HR TELEPHONE: Chemtrec: US/Canada 1-800-424-9300  
International +1-703-527-3887

**SECTION 2**  
**Hazards Identification**

**Product Classification:** Product not classified as hazardous for the used Classification System

**Label Pictogram(s):** Not required

**Signal Word:** Not applicable

**Hazard Phrases:** Not applicable

**Precautionary Phrases:** Not applicable

**Response:** The product is a conductor of electricity and lubricant. In case of leakage, isolate the area in order to avoid falls and clean the area with water and soap. Avoid contact with equipment and electrical network due to its conductivity.

**Other:** There are no other hazards.

**SECTION 3**  
**Composition/Information on Ingredients**

**MIXTURE:** Ingredients or impurities that contribute to the hazard:

<u>Components</u>	<u>CAS NUMBER</u>	<u>Concentration (%)</u>
Natural Graphite*	7782-42-5	70 - 100%
Quartz	14808-60-7	0 – 25%

\*Due to the aspect of the product, this ingredient does not contribute to the hazard. However, there is an occupational exposure limitation established, according to Section 8.

## SECTION 4 First Aid Measures

### First Aid Measures

<b>Eyes</b>	Wash the affected are with plenty water for at least 15 minutes. If you wear contacts, you must remove them if it is easy. If the irritation persists you must look for a physician.
<b>Skin</b>	Wash hands with soap and water after handling the product.
<b>Ingestion</b>	Do not vomit. Drink plenty water and look for a physician.
<b>Inhalation</b>	Remove the victim to a ventilated area and lay flat that does not restrict respiration. In case of indisposition, you must contact a Toxicological Information Center or a physician.
<b>Signs &amp; Symptoms Of Over Exposure:</b>	May cause mild redness on eyes and skin. The ingestion may cause slight discomfort. The inhalation of high concentration may cause damage to the lungs and repetitive contact by causing pneumoconiosis.
<b>Note to doctor:</b>	If necessary, the symptomatic treatment must support measurements as correction of hydro-electrolytics disturbs metabolic and respiratory assistance.

## SECTION 5 Fire Fighting Measures

<b>Proper Extinguishing Ways:</b>	Compatible with foam to hydrocarbons, water fog, chemical powder and carbon dioxide (CO <sup>2</sup> ).
<b>Specific hazards:</b>	The combustion of chemical product may form irritating and toxic gases as dioxide and monoxide carbon. As it is an electricity conductor, it may provoke short circuit on electro/electronic equipment and electrical network.
<b>Protective measure f the fire-fighting team:</b>	Respiratory Protection Equipment like autonomous type (SCBA) with positive pressure and complete protective clothing. Containers and involved tanks in the fire may be cold with water spray.

## SECTION 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures.**

**For people who are not part of emergency services:**

Isolate the leakage. Do not smoke. Avoid inhalation, contact with eyes and skin. Use individual protection equipment according to Section 8.

**For emergency service personnel:**

Wear complete Individual Protection Equipment (EPI) with safety glasses, impermeable gloves, safety boots and apron. The material used must be impermeable material.

**Environmental Precautions:**

Isolate the accident area. Prevent spillage from spreading, preventing contamination waterways or sewage system.

**Methods and materials for containment and cleaning:**

Remove the product by using vacuum system or other method that does not generate dust. Put the material in a proper recipient and remove them to a safe place. For final disposal, please proceed according to Section 13.

## SECTION 7 Handling and Storage

**Precautions for Safe Handling:**

Handle it in a well-ventilated area or with local general ventilation/exhaustion system. Avoid dust. Avoid inhaling the product in case of dust formation. Avoid contact with incompatible materials. Since this is a slippery product, it may cause falls and vehicle slipperiness. Wear protective clothing, safety glasses and face protection as indicated in Section 8.

**Hygiene Measurement:**

Wash the hands and face carefully after handling and before eating, drinking, smoking or going to the bathroom. Remove the protection equipment before entering to any food areas.

**Conditions for Safe Storage:**

**Fire and Explosion Prevention:** It is not expected that this product present fire and explosion hazard.

**Proper Conditions:** Keep the product in a well-ventilated area far from the sun light. Keep the recipient closed. Keep it away from the incompatible materials.

**Materials for Packing:** Alike the original packaging.

## SECTION 8 Exposure Controls/Personal Protection

**Occupational Exposure Limit:**

**Chemical or Common Name**  
Natural Graphite  
(Breathable Powder)

**TLV-TWA (ACGIH, 2011)**  
2 mg/m<sup>3</sup>

**Biologics Indicators:** Not established.

**Engineering Control Measurement:** Promote the mechanical ventilation and direct exhaustion system for the outdoors. It is recommended to have emergency safety shower and wash eyes near the working area. Keep the concentration of the substance or mixture in the air under the indicated occupational

exposure limits. The engineering control measurements are the most effective to reduce the product exposure.

## SECTION 9 Physical and Chemical Properties

<b>Aspect (Physical state, shape, color)</b>	Solid, dark grey with metallic shine
<b>Odor</b>	Odorless
<b>pH</b>	Not available
<b>Melting point / freezing point</b>	3.650 °C
<b>Initial boiling point and boiling temperature range</b>	Not available
<b>Flash Point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not a flammable product
<b>Inferior Limit/ Superior Flammability or Explosivity</b>	Not available
<b>Steam pressure</b>	Not available
<b>Steam Density</b>	Not available
<b>Relative density</b>	Not available
<b>Solubility</b>	Insoluble
<b>Coefficient of Participation - n-octanol / water</b>	Not available
<b>Self-Ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Above 550 °C
<b>Viscosity</b>	Not available
<b>Distillation range</b>	Not available

## SECTION 10 Stability and Reactivity

<b>Reactivity</b>	It is not expected that the product may present potential reaction.
<b>Chemical Stability:</b>	Product stable under normal conditions of pressure and temperature.
<b>Possibility of dangerous reactions:</b>	Unknown hazard reaction to this product.
<b>Conditions to avoid (e.g. static discharge, shock or vibration):</b>	Incompatible materials
<b>Incompatibilities: Hazardous decomposition products:</b>	Oxidizing, Halogens, Alkaline Metals and its Peroxides When it is decomposing, it releases Carbon Monoxide and Dioxide Carbon.

## SECTION 11 Toxicological Information

<b>Acute Toxicity</b>	Product not classified as hazardous. The ingestion may cause slight discomfort.
<b>Skin corrosion / irritation</b>	It can cause slight irritation with skin redness although there is no registration.
<b>Serious eye damage / eye irritation</b>	It may cause slight eye irritation with redness and tearing.
<b>Respiratory or skin sensitization</b>	It is not expected to cause respiratory or skin sensitivity effects.
<b>Germ cell mutagenicity</b>	It is not expected that the product present potential mutagenic to humans.
<b>Carcinogenicity</b>	Not classified as carcinogenic to humans (Group A4 – ACGIH, 2011).
<b>Reproductive toxicity</b>	It is not expected that the product presents toxicity to the reproduction and lactation.
<b>Specific target organ toxicity - single exposure</b>	It is not expected that the product presents toxicity to the specified target organ for single exposure.
<b>Specific target organ toxicity - repeated exposure</b>	The high concentration inhalation of graphite may cause damage to the lungs with pneumoconiosis for long and repeated exposure.
<b>Danger by aspiration</b>	It is not expected that the product presents aspiration dangers.

## SECTION 12 Ecological Information

<b>Ecotoxicity: Persistence and Degradability:</b>	It is not expected that the product may be toxic for aquatic organisms. In function of the lack of data, it expects that the product presents persistence and is not quickly degradable.
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**Bioaccumulation Potential:** It is not expected potential bio cumulative in aquatic organism.

**Mobility in Soil:** It is not expected that the product presents soil mobility.

**Other Adverse Effects:** It is unknown that there are other environmental effects for this product.

## SECTION 13 Disposal Considerations

**Recommended methods for final destination:** **Product:** The product must be discarded according to the local legislation. The treatment and disposal must be evaluated specifically for each product. It must consult with federal, state and municipal legislation.

**Product Balance:** To keep the waste of the product on its original packaging and duly closed. The disposal must be made according to the establishment for the product.

**Used Packaging:** Do not reuse empty packaging. Those may contain waste of product and must be kept closed. They must be forwarded to be destroyed in a proper area.

## SECTION 14 Transport Information

### National and International Regulatory

**Land:** Resolution nr 420 from February 12, 2004 from National Agency of Land Transport (ANTT), approves the complementary instructions to the regulation of the Land Transport for Dangerous Products and its modifications.

**Hydro:** DPC – Port and Coastal Board (Transportation on Brazilian Waters)  
Maritime Authority Regulations (NORMAM)  
NORMAM 01/DPC: Vessels Used on Open Sea Navigation  
NORMAM 02/DPC: Vessels Used on Interior Navigation  
IMO – “International Maritime Organization”  
International Maritime Dangerous Goods Code (IMDG Code)

**Air:** ANAC – Civil Aviation National Agency – Resolution nr 129 from December 8, 2009.  
RBAC N°175 – (Brazilian Regulations of Civil Aviation) – Transportation of Hazardous Articles into Civil Craft.  
IS N°175-001 – Supplemental Instruction – IS  
ICAO – “International Civil Aviation Organization”  
IATA – “International Air Transport Association”

Dangerous Goods Regulation (DGR).

**ONUM Number:** Not classified as Hazardous for the transportation on different means of transportation.

## SECTION 15 Regulatory Information

### Specific Regulatory for Chemical Product:

Federal Decree nr 2.657, July 3, 1998. Standard  
ABNT-NBR 14725:2012  
Law nr 12.305, August 2, 2010 (National Politic of Solid Waste).  
Decree nr 7.404, December 23, 2010.  
Ordinance nr 229, May 24, 2011 – Revise the reglementary regulation nr 26.

## SECTION 16 Other Information

We believe all information given is accurate. It is offered in good faith but without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.

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### ABBREVIATIONS:

NG="NOT GIVEN"

<="LESS THAN"

ND = Not Determined

BT="BETWEEN"

>="GREATER THAN"

NA = Not Applicable