

# CHARACTERISTICS CHARTER

## DIATOMITE-BASED SORBENT

(NATURAL, GRANULAR, MINERAL)

The product is not a hazardous mixture as understood by the Act of 25.02.2011 about chemical substances and their mixtures (Journal of Laws 2011 No. 63, item 322)

**Charter drafted on: 05.04.2020**

<b>SECTION 1. PRODUCT IDENTIFICATION AND ENTERPRISE IDENTIFICATION:</b>	
<b>1.1. Product identification:</b>	<b>Natural sorbent from crushed diatomite rock.</b>
<b>1.2. Application:</b>	<i>Natural mineral sorbent for collecting oil and crude oil derivative pollution from solid surfaces.</i>
<b>1.3. Enterprise identification:</b>	<p style="text-align: center;"><b>Producer:</b></p> <p>Specjalistyczne Przedsiębiorstwo Górnicze „GÓRTECH” (Specialist Mining Enterprise) spółka z o.o. ul. Wielicka 50, 30-552 Kraków tel. +48 609 417 000 E-mail: <a href="mailto:k.smoron@diato.pl">k.smoron@diato.pl</a> / www: <a href="http://www.diato.pl">www.diato.pl</a> NIP: 677-004-65-96, REGON: 350500378 KRS: 0000097646 - District Court in Kraków</p> <p style="text-align: center;"><b>Production plant:</b></p> <p>Diatomite Mine and Processing Plant in Jawornik Ruski 37-751 Żohatyn, Podkarpackie province, tel./fax. +48 609 417 000</p>
<b>1.4. Emergency phone no.</b>	<b>+48 609 417 000</b>
<b>SECTION 2. IDENTIFICATION OF RISKS:</b>	<p>According to the EC Regulation no. 1272/2008, diatomite is not qualified as hazardous. <i>Risk to health – not applicable.</i> <i>Risk to environment - not applicable.</i> Due to low dust content in the granulation of 0,5 - 3,0 mm, there is no risk of exceeding the pollution norms or irritation in contact with eyes and skin.</p>

**SECTION 3.  
PRODUCT CONTENTS/INFORMATION ABOUT COMPONENTS:**

<b>3.1. Product contents:</b>	The main ingredient of diatomite is a form-free fuel silica. Natural additions consist of aluminosilicates (mainly illite) and iron compounds.. Diatomites are not on the list of substances which pose threat to health or life (attachment no.1 and 2. to the Regulation of the Minister of Health And Social Policy; Journal of Laws no. 105 dated 10.09.1977, item 671 ).
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**SECTION 4. FIRST AID:**

<b>4.1. Digestive tract:</b>	- in case of swallowing contaminated diatomite, take out to get some fresh air, trigger vomiting, wash mouth,
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<b>4.2. Contact with skin:</b>	- wash with water and soap,
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<b>4.3. Eyes:</b>	- wash with water.
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**SECTION 5.  
ACTION IN CASE OF FIRE:**

Non-flammable substance. Diatomite is even an ingredient of fire-fighting powders.

**SECTION 6.  
ACTION IN CASE OF UNINTENDED  
DISPOSAL INTO THE  
ENVIRONMENT:**

Granular diatomite is a chemically-neutral substance which does react to liquids so it does not pose threat to the environment. It has the properties of absorptive sorption of oil substances and oil derivatives. Absorbed with the aforementioned substances it does not pose a threat as it has the minimum desorption.

**SECTION 7.  
DEALING WITH THE SUBSTANCE AND ITS STORAGE**

<b>7.1. Dealing with the substance:</b>	Due to tight packaging (polypropylene bags with inserts) and no harmfulness to the environment, there is no threat.  The dust content in this substance does not pose a threat of exceeding the workplace dusting norms.
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<b>7.2. Storage:</b>	Diatomite sorbent is sold by the manufacturer in individual bags or on pallets which are additionally covered with foil and weighing 700 or 800 kg. <b>The bags which are used for packing the sorbent are not resistant to the impact of solar radiation or sustained atmospheric precipitation.</b>
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<b>7.3. Specific application</b>	In the chemical, pharmaceutical and plant protection industries, in construction as an additive to concrete toppings eliminates geopathic radiation and the construction materials produced on the basis of diatomite create a positive microclimate in residential buildings.
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<b>7.4. Packaging</b>	Polypropylene bags with foil inserts.
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<b>SECTION 8.</b>	
<b>CONTROL OF EXPOSURE AND PERSONAL PROTECTIVE EQUIPMENT</b>	
<b>8.1. Exposure limit value:</b>	Not applicable.
<b>8.2. Control of exposure:</b> <b>8.2.1. Workplace exposure control:</b> •airways protection: •hands protection: •eyes protection: •skin protection: <b>8.2.2. Environmental exposure control:</b>	Masks or half-masks may be used. Protective gloves may be used. Protective glasses may be used. Not applicable. Exposure assessment methods – the possible dusting measurement shall be carried out using the filtration-weighing method, in accordance with PN-91/Z-04030/05 and 06.
<b>SECTION 9.</b> <b>PHYSICAL AND CHEMICAL PROPERTIES:</b>	<p>According to the industry norm BN-91/0568-01. Diatomite – catalogue group 0152:</p> <ul style="list-style-type: none"> <li>- Moisture content - max 6 % ,</li> <li>- Content of SiO<sub>2</sub> - min 69 %,</li> <li>- Content of Al<sub>2</sub>O<sub>3</sub> - max 11,8</li> <li>- Content of Fe<sub>2</sub>O<sub>3</sub> - approx. 4,3</li> <li>- PH - from 5,7 to 8,3 depending on the source batch, <ul style="list-style-type: none"> <li>- Bulk density for sorbent (0,5 - 3,0 mm) - max 900 kg/m<sup>3</sup>,</li> <li>- Bulk density for sorbent (2,0-5,0 mm) - max 1000 kg/m<sup>3</sup>.</li> </ul> </li> </ul> <p>Furthermore: Physical state - solid. Physical form : sorbent ( 0,5-3,0 mm ) - grit, sorbent ( 2,0-5,0 mm ) - chippings. Colour: light gray to gray. Smell : no smell. Solubility : substance not soluble in water and acids.</p> <p>For crushed diatomites, the capability to absorb various oil substances and derivatives is approx. 45% of weight absorption.</p>
<b>SECTION 10.</b> <b>STABILITY AND REACTIVENESS:</b>	<b>Stability</b> – usage period with correct storage - unlimited. <b>Reactivity</b> - when left loose, it has hygroscopic properties. <b>It is chemically neutral</b> – does not come into reaction with conduits.
<b>10.1. Conditions which shall be avoided.</b>	Not applicable.

<b>SECTION 11.</b> <b>TOXICOLOGY INFORMATION:</b>	<p>Does not have toxic properties.</p> <p>Diatomites are not on the list of substances which pose threat to health or life (attachment no.1 and 2. to the Regulation of the Minister of Health And Social Policy; Journal of Laws no. 105 dated 10.09.1977).</p>
<b>SECTION 12.</b> <b>ECOLOGICAL INFORMATION:</b>	<p>Natural mineral substance does not pose risk to the natural environment.</p> <p>Even used sorbent (saturated with oil derivatives) according to the Act on waste of 27.04.01 (Journal of laws no. 62) and Regulation of the Environment Minister no. 1206 dated 27.09.01 (Journal of Laws no. 112), due to its properties of permanent sorption and minimum desorption <b>has not been included in the group of hazardous waste but to the waste group no. 15, sub-group 15.02.03, namely "sorbents, filtration materials, cleaning cloths and protective clothing."</b> According to the opinion of the experts from the Ministry of the Environment: prof. dr. Marian Granopos of Rzeszów Polytechnic and prof. Dr. Edward Popiołek of AGH, used diatomite may be placed in industrial and communal landfills.</p>
<b>SECTION 13.</b> <b>WASTE MANAGEMENT:</b>	<p>Used diatomite, according to the opinions described in point 12, is not on the list and hazardous materials, therefore it may be stored in industrial and communal landfills.</p>
<b>SECTION 14.</b> <b>TRANSPORT INFORMATION:</b>	<p>No mandatory marking.</p> <p><b>Road and rail transport ADR/RID – Not classified. IMDG Sea transport – Not classified.</b></p> <p><b>ICAO/IATA Aviation transport – Not classified.</b> The product is packed into polypropylene bags with foil inlets which, however, does not protect it against sustained precipitation and sustained solar radiation. It is recommended to transport in covered or open vehicles on pallets pre-covered with foil.</p>

**SECTION 15.**

**INFORMATION CONCERNING THE LEGAL PROVISIONS**

- Attestation Certificate of the FIRE PREVENTION SCIENCE AND RESEARCH CENTRE – of the National Research Institute no. 2387/2015 dated 22.05.2015.
- ATTESTATION of the National Institute of Public Health – National Hygiene Institute No. PZH/HT- 2984/2015 dated 18.02.2015.
- CERTIFICATE OF RADIATION HYGIENE No. HR/B/34/2005 – there are no hygienic contraindications to sell diatomite grains and dusts.
- ACT dated 25.02.2011 on chemical substances and their mixtures (Journal of Laws 2011 No. 63, item 322),
- EC Regulation no. 1272/2008 dated 16th of December 2008 concerning the classification, marking and packing of substances and mixtures.
- EU Commission Regulation no. 453/2010 dated 20th of May 2010.
- Regulation of the Minister of Health dated 02.09.2003 concerning the criteria and qualification methods for chemical substances and formulas (Journal of Laws 2003 no. 171, item 1666),
- Act of 09.01.2009 concerning the change to the act on chemical substances and formulas and some other acts (Journal of Laws 2009 no. 20, item 106)
- The European Agreement concerning international road transport of hazardous goods (ADR) dated the 30<sup>th</sup> of September 1957.
- Journal of Laws no. 194/2002, item 1629 along with the amendments published in the form of a Government Declaration in the Journals of the Republic of Poland.
- Act of the 28th of October 2002 on the road transport of hazardous materials (Journal of Laws 199/2002, item 1671 as amended).
- Waste classification in accordance with the Regulation of the Environmental Minister dated 27<sup>th</sup> of September 2001 concerning the waste catalogue ( Journal of Laws no. 112, item 1206).

**SECTION 16. OTHER INFORMATION:**

The above information has been prepared in accordance with the legal provisions in place and applies to the product in a trade form, accordance with its purpose. The product related information was presented in order to consider the safety requirements during usage. In case when the product usage requirements are outside of the manufacturer's control, the user becomes responsible for its safe and effective application.

**Additional information may be obtained from the company on the phone numbers indicated in section 1.3. or on the following website [www.gortech.pl](http://www.gortech.pl)**

**Diatomite is not subject to mandatory registration with the REACH system, according to:**

EC REGULATION NO. 987/2008 dated 8th of October 2008 repealing the appendices IV and V to the EC Regulation no. 1907/2006 of the European Parliament and the Council concerning registration, evaluation, authorization and restriction of chemicals (**REACH**) **is no subject to mandatory registration in accordance with article 2, para. 7, letter B.**

*( 7.The following substances occurring in nature, if not modified chemically: minerals, ores, enriched ores, natural and processed crude gas, crude oil, coal).*