MATERIAL SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

ELI-DRI ABSORBENT GRANULES

Revision date: 22/03/2018

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: ELI-DRI ABSORBENT GRANULES
Chemical Name: Attapulgite
CAS No: 12174-11-7
Registration No: Exempt

1.2 Relevant identified uses of the substance and uses advised against.

This material should only be used for industrial purposes
Uses advised against:
Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **B&D CLAYS LIMITED**
Address: 10 Wandle Way, Willow Lane Industrial Estate, Mitcham, Surrey, CR4 4NB
E-mail: sales@bdclays.com

1.4 Emergency telephone number: 020-8640-9221 (Only available during office hours; Monday-Friday; 09:00-17:00)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance.

The product is not classified as hazardous within the meaning of Regulation (EU) No 1272/2008.

2.2 Label elements

2.3 Other hazards.

The product may have the following additional risks:
Dustiness.
This product may generate dust during handling and use. May contain contain quartz (crystalline silica) as natural impurity. Long term over exposure to crystalline silica dust may cause silicosis.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances.

Mono-constituent.
Chemical Name: Attapulgite
CAS No: 12174-11-7
Registration No: Exempt

Impurities or additives that affect the classification:

			(*)classification No1272/	Regulation (EC) 2008
Identifiers	**Name**	**Concentrate**	**Classification**	**Specific Concentration Limit**
:14808-60-7 :238-878-4	[1] Quartz (Si02)	0-7%	-	-

(*)The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[1] Substance with a Community workplace exposure limit (see section 8.1).

3.2 Mixtures.

Not Applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Due to the composition and type of the substances present in the product, no particular warnings are necessary.

Inhalation

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes
while pulling eyelids up and seek medical assistance.

Skin contact

Remove contaminated clothing.

Ingestion

Keep calm. NEVER induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No known acute or delayed effects from exposure to the product.

4.3 Indication of any immediate medical attention and special treatment needed

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance
Special risks
Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters
Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account.
Fire protection equipment
According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment,
gloves, protective goggles or facemasks, and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For exposure control and individual protection measures, see section 8.

6.2 Environmental precaution
Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3 Methods and material for containment and cleaning up
The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections
For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling
The product does not require special handling measures, the following general measures are recommended:
For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers.
In the application area, smoking, eating, and drinking must be prohibited.
Follow legislation on occupational health and safety.
Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities
The product does not require special storage measures.
As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided.
Keep away from oxidising agents and from highly acidic or alkaline materials.
Store the containers between 5 and 35º C, in a dry and well-ventilated place.
Store according to local legislation. Observe indications on the label.
The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s)
Raw mineral
Technological Additive for Animal Feed
Absorbent
Animal Bedding
Agro
Water treatment

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Work exposure limit for:

Name	CAS No	Country	Limit Value	Ppm	Mg/m3
Quartz (Si02)	14808-60-7	European Union [1]	Eight hours Short term		0.1
Quartz (Si02)	14808-60-7	United Kingdom [2]	Eight hours Short term		0.1
Quartz (Si02)	14808-60-7	Eire [3]	Eight hours Short term		0.1
Quartz (Si02)	14808-60-7	United States [4] (cal/OSHA)	Eight hours Short term		0.05 respirable dust 0.3 (total dust)
		United States [5] (NIOSH)	Eight hours Short term		Potential occupational carcinogens 0.05 respirable dust, lowest feasible concentration (LFC)
		United States [6] (OSHA)	Eight hours Short term		(Total dust) 30mg/m3/(%Si02+2)

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted
by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).
[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.
[3] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).
[4] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
[5] According Compendium of Policy Documents and Statements adopted by National Institute for Occupational Safety and Health (NIOSH).

[6] According Occupational Health and Safety Standards and US Code of Federal Regulations adopted by US Occupational Safety and Health Administration (OSHA).
The product does NOT contain substances with Biological Limit Values.
Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable quartz, respirable cristobalite).
A European Binding OEL (Occupational Exposure Limit) for respirable crystalline silica dust is set at 0.1 mg/m³ in the Directive (EU) 2017/2398, measured as an 8-hour TWA (Time Weighted Average)

8.2 Exposure controls

Measures of a technical nature:
Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.
Concentration: 100 %
Uses: This material should only be used for industrial purposes

Breathing protection:

PPE:	Particle filter mask
Characteristics:	«CE» marking, category III. Made of filtering material, it covers nose, mouth and chin.
CEN standards:	EN 149
Maintenance:	Check for any tears, defects, etc. before use. Since it is disposable individual protection equipment, it should be replaced after use.
Observations:	Does not protect worker unless properly adjusted. Follow the manufacturer's instructions regarding suitable use of the equipment.

Filter Type needed: P2

Hand protection:

PPE:	Protective gloves.
Characteristics:	«CE» marking, category II.
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.
Material:	PVC (polyvinyl chloride)
Breakthrough time (min.):	> 480
Material thickness (mm):	0,35

Eye protection:

PPE:	Protective goggles against particle impacts.
Characteristics:	«CE» marking, category II. Eye protector against dust and smoke.
CEN standards:	EN 165, EN 166, EN 167, EN 168

Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions. Observations: Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.

Skin protection:

PPE:	Work footwear.
Characteristics:	«CE» marking, category II.
CEN standards:	EN ISO 13287, EN 20347
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:Granules
Colour: Cream to greyish
Odour:Odourless
Odour threshold:N.A./N.A.
pH:8-9
Melting Point:N.A./N.A.
Boiling Point: N.A./N.A.
Flash Point: N.A./N.A.
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): Non flammable
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: N.A./N.A.
Vapour density:N.A./N.A.
Relative density:2,2
Solubility:Insoluble
Liposolubility: Insoluble
Hydrosolubility: Insoluble
Partition coefficient (n-octanol/water): N.A./N.A.
Auto-ignition temperature: N.A./N.A.
Decomposition temperature: N.A./N.A.
Viscosity: N.A./N.A.
Explosive properties: Non explosive
Oxidizing properties: N.A./N.A.
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information

Pour point: N.A./N.A.
Blink: N.A./N.A.
Kinematic viscosity: N.A./N.A.
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
The product does not present hazards by their reactivity.

10.2 Chemical stability
Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions
The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid
Avoid any improper handling.

10.5 Incompatible materials
Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products
No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
There are no tested data available on the product.
Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact
dermatitis and absorption of the product through the skin.
Splatters in the eyes can cause irritation and reversible damage.
a) acute toxicity;
Not conclusive data for classification.
b) skin corrosion/irritation;
Not conclusive data for classification.
c) serious eye damage/irritation;
Not conclusive data for classification.
d) respiratory or skin sensitisation;
Not conclusive data for classification.
e) germ cell mutagenicity;
Not conclusive data for classification.
f) carcinogenicity;
Not conclusive data for classification.
g) reproductive toxicity;
Not conclusive data for classification.
h) STOT-single exposure;
Not conclusive data for classification.
i) STOT-repeated exposure;
Not conclusive data for classification.
j) aspiration hazard;
Not conclusive data for classification.

Individual particle length of this attapulgite is shorter than 5µm.

IARC has classified attapulgite dust (fibres below 5µm) as class 3 ("Cannot be classified as to carcinogenicity to Humans)

This product may contain quartz (crystalline silica). In 1997, IARC concluded that the respirable fraction of crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated (IARC Monographs, Vol 68)

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
There is no information available on the biodegradability of the substances present.

12.2 Persistence and degradability
There is no information available on the degradability of the substances present.
No information is available regarding the degradability.No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential
No information is available regarding the bioaccumulation.

12.4 Mobility in soil
No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment
No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects
No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current,local/national legislation.
Follow the provisions of Directive 2008/98/EC regarding waste management.

Waste classification according to the European Waste Catalogue:
01 WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 04 wastes from physical and chemical processing of non-metalliferous minerals
01 04 09 waste sand and clays

Method of treatment according to Directive 2008/98/EC:
Disposal
D13 Blending or mixing prior to submission to any of the operations numbered D1 to D12

SECTION 14: TRANSPORT INFORMATION

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number

Transportation is not dangerous.

14.2 UN proper shipping name

Description:
ADR: Transportation is not dangerous.
IMDG: Transportation is not dangerous.
ICAO/IATA: Transportation is not dangerous.

14.3 Transport hazard class(es)

Transportation is not dangerous.

14.4 Packing group

Transportation is not dangerous.

14.5 Environmental hazards

Transportation is not dangerous.

14.6 Special precautions for user

Transportation is not dangerous.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.
Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A
The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.
The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.
Kind of pollutant for the water (Germany): Not dangerous. (Autoclassified according to the AwSV Regulations)

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

It is recommended that the product only be employed for the purposes advised.
Abbreviations and acronyms used:
AwSV: Facility Regulations for handling substances that are hazardous for the water.
CEN: European Committee for Standardization.

PPE: Personal protection equipment.
WGK: Water hazard classes.
Key literature references and sources for data:
http://eur-lex.europa.eu/homepage.html
http://echa.europa.eu/
Regulation (EU) 2015/830.
Regulation (EC) No 1907/2006.
Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830
of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration,
Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive
1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council
Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control.
The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.