SAFETY DATA SHEET

Regulation (EC) n° 1272/2008 amending Regulation (EC) n° 1907/2006

Date: 04/08/2016

Ind. Rev.: 3

GEOSPRIV

1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE / COMPAGNY IDENTIFICATION

1.1. Identification of the substance : GEOSPRIV

1.2. Relevant identified uses : Treatment of musts and new wines still in fermentation with moudly-earthy character.

1.3. Company / undertaking identification :

LAMOTHE-ABIET - Z.A. ACTIPOLIS AVENUE FERDINAND DE LESSEPS - 33610 CANEJAN - FRANCE
Tel: +33 (0)5.57.77.92.92 Fax: +33 (0)5.56.86.40.02 / contact@lamothe-abiet.com www.lamothe-abiet.com

1.4. Emergency Telephone :

Contact the Anti-Poison department or your local hospital

2 – HAZARDS IDENTIFICATION

The product mentioned above does not fill the criteria of dangerousness listed in the regulations n°1907/2006/CE and n°1272/2008 as well as in the directives n°67/548/EEC and n°1999/45/CE.
The product is considered not hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
So, this product does not require a safety data sheet. The transmitted informations are given for information purposes.
Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces, and dangerously low levels of oxygen may result. Prior to entering a confined space that contains or previously contained activated carbon, the space should be evaluated for oxygen and carbon monoxide concentrations, and any other hazards, by a qualified person.
Workers should also take appropriate precautions when dealing with spent (used) activated carbons which may exhibit hazardous properties associated with the adsorbed materials.
Avoid dust formation. Powdered material may form an explosible dust-air mixture. If transferring product under pressure, avoid generation of dust if an ignition source is present. Activated carbons have high surface area which may cause self-heating during oxidation.
Do not generate dust because airborne respirable crystalline silica may be generated.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Product : Powdered carbon, water activated

	Activated carbon
N° CAS:	7440-44-0
N° EINECS :	231-153-3

This product, which is manufactured from a naturally occurring raw material(s), contains <1% total crystalline silica (quartz, CASRN 14808-60-7).

Hazardous components : none

4 – FIRST AID MEASURES

In case of eye contact: Rinse with water immediately and abundantly during 15 minutes by maintaining the eyelids opened. If an irritation develops, consult an ophthalmologist.
In case of inhalation: Aerate the room. Remove the patient from the contaminated premises and allow him to rest in a well ventilated area. Blow the nose to evacuate the dust. If cough, shortness of breath or other breathing problems occur, consult a doctor.
In case of ingestion: Do not vomit. Rinse the mouth with full water then drink some water. In case of persistent disorders, consult a doctor.
In case of skin contact: Wash with plenty of soap and water. If an irritation develops, consult an ophthalmologist.

5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water, CO2, foam, chemical powders according to the materials involved in the fire.
Extinguishing media to be avoided: Do not use a solid water stream as it may scatter and spread fire. Do not use high pressure media which could cause formation of a potentially explosible dust-air mixture. In the event of a fire, spreading large amounts of activated carbon is not recommended due to the risk of creating uncontrolled dust emissions.
Particular risks : Burning produces irritant fumes. If transferring product under pressure, avoid generation of dust if an ignition source is present. Activated carbons have high surface area which may cause self-heating during oxidation. An adequate air gap between packages of activated carbon is recommended to reduce risk of propagation of the event. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame.
Risks arising from combustion: Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air). Used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed. Carbon monoxide (CO). Carbon dioxide (CO2).
Protective equipment: In case of fire, use protection for the respiratory tract.

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:	See § 8 below.
Carefully plan the environment:	Prevent the flow of the product in sewers, grounds and natural waters.
Cleaning methods:	If the product is in liquid form, stop it from entering the drainage system. Collect the product by mechanical means, rather with a vacuum cleaner equipped with an efficient filter and with high efficiency particulate air (HEPA) filtration. Appropriately absorb any spills with inert material and dispose of properly. Avoid the formation of dust and avoid plashing or washing under pressure (avoid the forming of sprayer). After picking up the product, rinse the area and materials with water.

7 – HANDLING AND STORAGE

Precaution for handling: Avoid contact with skin and eyes. Avoid the forming of dust. Avoid splashing or washing under pressure. Insure a good ventilation of the premises during the manipulation of the preparation.
Dust may form explosible mixture in air. Activated carbons have high surface area which may cause self-heating during oxidation.
Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations. Fine dust is capable of penetrating electrical equipment and may cause electrical shorts. If hot work (welding, torch cutting, etc.) is required the immediate work area must be cleared of product and dust.
Storage conditions: The containers should always be tightly closed. Keep away from heat and sources of ignition. Do not store together with strong oxidizing agents. Do not store together with volatile chemicals as they may be adsorbed onto product. Keep in properly labeled containers. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosible mixture if they are released in the atmosphere in sufficient concentrations. Prior to entering a confined space that contains or previously contained activated carbon, the space should be evaluated for oxygen and carbon monoxide concentrations, and any other hazards, by a qualified person.
Incompatible materials: Strong oxidizing agents. Strong acids.
For local indication: Store in original sealed packages, in a cool dry place (off the floor) in an odour-free environment and well ventilated.

8 – EXPOSURE CONTROL/PERSONAL PROTECTION

Precautions: Properly ventilate the premises where the product is stored and / or handled.
Technical measures: use an appropriate ventilation system to keep the quantity of dust under the breathable limit.

Components	Breathable limit
Cristobalite	0,1 mg/m3
Inhalable dusts	10 mg/m3 Breathable dusts

Respiratory Protection: Wear protective mask (P3 filter – EN143) in little ventilated zones
Protection of hands: Wear waterproof protective gloves (UNI EN 420/UNI EN 374).
Eye protection: Wear safety glasses with lateral protection.
Skin Protection: Wear protective clothes which guarantee a total protection of the skin (ex cotton, PVC, cahoutchouc).
Exposure limit (ACGIH): None.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C)	solid
Shape	powder
Color	black
Smell	odourless
T ° of auto-flammability	groundless
Solubility in water	insoluble
Limit of lower explodability in the air	30 g / m3
Minimal temperature of inflammation	>500°C
Class of explodability of dust	St1.

Other physico-chemical parameters are not relevant for the safety.
For further information, refer to the data sheet and to the Product sheet.

10 – STABILITY AND REACTIVITY

Chemically stable if stored in a dry and cool place. Avoid humidity. Keep away from heat and sources of ignition. Avoid dust formation. Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces, and dangerously low levels of oxygen may result. Activated carbons have high surface area which may cause self-heating during oxidation. Dust may form explosible mixture in air. Avoid dust formation. Do not create a dust cloud by using a brush or compressed air. Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations.

Substances to avoid: Strong oxidizing agents, Strong acids.
Danger of decomposition: Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air), Used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed, Carbon oxides.

11 – TOXICOLOGICAL INFORMATION

Acute toxicity: This product has low toxicity. Only large volumes may have adverse impact on human health.
CL50 rat inhalation 8,5mg/
DL50 rat ingestion > 2000mg/kg
Skin corrosion/irritation: According to the available experimental studies: not irritating.
Eye damage/irritation: According to the available experimental studies: not irritating.
Respiratory /Skin sensitization: According to the available experimental studies: not making sensitive.
CMR (Carcinogenity, germ cell Mutagenicity, Reproductive toxicity): No known effects

12 – ECOLOGICAL INFORMATION

Ecotoxicity : Non toxic. The substance is highly insoluble in water and the substance is unlikely to cross biological membranes. No adverse ecological effects are known.
Obstinacy and degradability: Not expected to degrade.
Potential of bioaccumulation: because of the coeff. of division(sharing) n-octanol-eau (log Pow), a notable accumulation in the bodies is not expected.
Other information: Negative results of PBT and vPvB assessment.

13 – DISPOSAL CONSIDERATION

Sweep or vacuum released product. Avoid raising dust.
No required method of special elimination Refer to national government, regional and local regulations before disposal procedure.

14 – TRANSPORT INFORMATION

Particular exemptions apply: ADR / RID 646 IMDG 925 IATA *A3
The product can be regulated in case the test 33.3.1.3.3 of the manual worker of test and criteria UN is negative.
Non-hazardous according to the ADR / RID, the ADNR, the code IMDG, the ICAO / IATA-DGR

<table>
<tr><th>Regulations</th><th>Number UN</th><th>Name of expedition(shipping) of United Nations</th><th>Classy Label</th><th>PG</th><th>Dangerous for the environment</th><th>Other information</th></tr>
<tr><td>Road transports ADR</td><td rowspan="7">1362</td><td rowspan="3">Activated carbon</td><td rowspan="7">4.2</td><td rowspan="7">III</td><td rowspan="7">no</td><td rowspan="6">Particular exemptions apply - see the text of the regulations</td></tr>
<tr><td>River and maritime transports ADN</td></tr>
<tr><td>Rail transports RID</td></tr>
<tr><td>Air transports IATA Cargo</td><td rowspan="4">Carbon, activated</td></tr>
<tr><td>Air transports IATA Passenger</td></tr>
<tr><td>River and maritime transports IMDG</td><td>Not submitted to the class 4.2. If test negative IMO-IMDG. (Compulsory .EmS certificate) Number: has F, S-J</td></tr>
</table>

15 – REGULATORY INFORMATION

Particular regulations / legislation in the substance regarding safety, regarding health and regarding environment
Legislation EU:
- Not listed as substance or dangerous preparation according to the regulation (CE) n°1272 / 2008 (CLP).
- Product not concerned by the regulations on the labeling of hazardous substances.
-No limitations according to the appendix XVII of REACH. Does not contain substance candidate REACH.
- The product is considered not hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Comply with any provision of national law in force.

16 – OTHER INFORMATION

The information given in this material data safety sheet is considered to be true and correct at time of publication. However the precision and completeness of this information, including all regulations, are given without warranty.
As usage conditions are beyond our control, it is the user's responsibility to determine safe usage conditions for this product.
« We inform all users of the risks incurred when a product is used for practices other than those for which it is designed. The user must understand and apply the totality of the regulations controlling the activity».

LAMOTHE - ABIET
Avenue Ferdinand de Lesseps
33610, CANEJAN / BORDEAUX, FRANCE
Tél : +33 (0)5 57 77 92 92
www.lamothe-abiet.com