1. PRODUCT AND COMPANY IDENTIFICATION

Tipe of product: Pressed and pre-fired atomized ceramic body

Commercial name: bisCotta

Detail of the supplier: ALDEROtech Srl
Loc. Quartaccio, 01034 Fabrica di Roma VT - Italy
tel +39 0761 513248 - fax +39 0761 599530
web www.aldero.com - email info@aldero.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation based on illitic-kaolinitic clays and raw material of mineral origin
Components presenting hazards to healt or the environment according to the Regulation 1272/2008/EC and Dir. 67/458/CE or for which there are community exposure limits in the workplace

Substance	% weight / weight	Classification	
		Dir. 67/548	Reg. 1272/2008
Quartz, respirable crystalline silica n. CAS 14808-60-7 n.CE 238-878-4	>1 - >10*	Xn; R48/20	STOT RE 1 – H372

*percentage calculated by method SWeRFcs (Size Weighted Resporable Fracrion of Crystalline Silica)

3. IDENTIFICATION OF HAZARD

Hazard classification under dir. 1999/457/CE: not listed

4. FIRST AID MEASURES

Skin contact: Remove contaminated clothing and wash with soap and water.
Eye contact: Flush with water while holding eyelids for a least 15 minutes.
If irritation persist, see a doctor.
Ingestion: Rinse mouth and drink water.
In case of ingestion significantly, consult a doctor and show this data sheet
Inhalation: Move the persona way from the area of exposure to fresh air.
In case of persistent difficulty breathing seek medical advise.

5. FIRE-FIGHTING MEASURES

The product is not-combustible.
Extinguishing: Water, CO2, foam, dry chemical, depending on the other materials involved on the fire.
Special hazards arsing from the product: No one.
Advice for firefighters: Follow the measures provided for other materials involved in the fire.

6. ACCIDENTAL RELASE MEASURES

Personal precautions, protective equipment and emergency procedures
Avoid formation of dus. Ensure adequate ventilation. Wear personal protective equipment (see sect. 8)
Environmental precautions
Prevent spillage and washing water will seep into the soil or from entering the drainage system.
Methods and materials for containment and cleaning up
Pick up the product mechanically dispersed, preferibly aspirants. Wash the floor plenty of water.

7. HANDLING AND STORAGE

Handling: Manipulate the product by avoiding as much as possible the dispersion of dust.
Equipping the workstations of local exhaust ventilation systems.

Storage: Store in a dry place. In case of storage in flexible containers (bib bags), avoid overlapping of more than two containers and comply with the safety standards laid down in this regard by the competent authority.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Limit values for occupational exposure:

Respirable crystalline silica:	VLE (EU-SCOEL)	0.050 mg/mc
	TLV/TWA (ACGIH)	0.025 mg/mc
Engineer controls:	Minimize dust generations. Use containment structures of processes, local exhaust ventilation or other engineering controls to keep airborne dust levels below the exposure limits. Apply organizational measures, such as isolating the dusty areas. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.	
Respiratory protection:	Generally not required in the presence of adequate suction and subject to the rules of good practices and personal hygiene measures for the handling of chemicals. During special activities, such as maintenance cleaning, if uncontrolled exposures are possible, provide workers with appropriate protective equipment, such as masks or semi-dust filtering fave a high degree of protection (FFP3)	
Hand protection:	Gloves mechanical protection.	
Skin protection:	Not normally required.	
Eye protection:	Safety glasses with side shield.	

9. PHISICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Ivory granular solid
Odor:	Odorless
pH:	n.a.
Melting point:	1250-1300 °C
Boiling pont/range:	n.a.
Flash point:	n.a.
Autoinflammability:	n.a.
Limits flammab./explisiveness:	n.a.
Steam pressure:	n.a.
Steam density:	approx. 1,08 kg/l
Solubility:	Insoluble in water
Partion coefficient (n-octano/water):	n.a.
Exnplosive properties:	not explosive
Oxidizing properties:	not oxidizing

10. STABILITY AND REACTIVITY

Reactivity	product is not reactive
Chemical stability	product chemically stable
Possibility of hazardous reactions	not expected
Conditions of avoid	no one in particular
Incompatible materials	no one in particular
Hazardous decomposition products	no one in particular

11. TOXICOLOGICAL INFORMATION

No specific information is available on the product itself. Below information available relating to the main substances (referred to respirable crystalline silica)

Acute toxicity:	no-observed effect
Corrosion/skin irritation:	no-observed effect
Injury/eye ittitation:	no-observed effect
Sensitization:	no-observed effect
Mutagenecity:	no-observed effect
Carcinogenicity:	IARC (group 1)
Reproductive toxicity:	no-observed effect
STOT – single exposure:	no-observed effect
STOT – repeated exposure:	respiratory effects (pulmonary, fibrosis, silicosis)
Danger Aspiration:	no-observed effect

The repeated and prolonged inhalation of fine dust of crystalline silica can cause serious respiratory diseases (pulmonary, fibrosis. Silicosis). The mail symptoms of silicosis are coughing and wheezing.
The IARC considers the respirable crystalline silica can cause lung cancer in humans, indicating, however, that the cancer effect depends on the characteristics of the crystalline silica as well as externals factors pertaining to the biological-physical condition of the environment and man (IARC Monographs – Vol. 68-1997)
The I.O.M. (Institute of Occupational Medicine) concluded that the data resulting from investigation epidermiological accomplished are not able to determine a direct effect of crystalline silica in the onset of lung cancer in humans, noting only a predisposition to the development of the disease in patients with silicosis (IOM report TM/96/08 pp.63).

12. ECOLOGICAL INFORMATION

There is no specific information about the product as such and its components.
It is believed, however, that the product does not present a danger to the environment.
Avoid in all cases to dispersesthe product on the ground, into waterways and drains.

13. DISPOSAL

Waste disposal and waste product must be made in accordance with the national legislation in force and to any specific provisions of the regional authorities.

14. TRANSPORT INFORMATION

Product is not subject to international regulations on the transport.

15. REGULATORY INFORMATION

Specific rules on health, safety and environmental requirements relating to the product
Reg. (CE) 1907/2006 – REACH:

Substances SVHC art. 50 (Candidate List)	N.A.
Authorization (annex XIV)	N.A.
Restriction (annex XVII)	N.A.

Dir. 96/82/CE – Control of major accidents:

Category Seveso	N.A.
Chemical Safety Assessment	N.C.

16. OTHER INFORMATION

This file is updated in Annex II of Reg. 1907/2006 – REACH as amended by Reg. 453/2010.
Abbreviations and acronyms: N.A. not applicable
N.C. not considerable
Full text of hazard and risk phrases mentioned in sect. 3:
H372 – Causes damage to lungs in case of prolunged or repeated exposure by inhalation.
R48/20 – Harmful: Danger of serious damage to healt by prolunged exposure through inhalation.

Bibliographic sources:
The Merck Index – 11th edition
Handbook of Chemistry and Physics – 78th edition
Sax's Dangerous Properties of industrial Materials – 8th edition
ACGIH – Threshold Limit Values and Biological Exposure Indices – ed.2002
IARC Monographs – Vol. 68 – 1997
SWeRFCS, Size Weighted Respirable Fraction of Crystalline Silica – A method for evaluating respirable crystalline silica content and related hazard potential in bulk material, Ingeborg Pensis (work paper).

This sheet has been prepared to the best knowledge and based on the sources of information currently available.
The user's attention is also drawn to the possible risk related to product use other than that for which it was designed.
This sheet replaces and cancels any previous version.