

1 | IDENTIFICATION OF THE SUBSTANCE/MIXTURE & OF THE COMPANY/UNDERTAKING

1.1 | PRODUCT IDENTIFIER

CODE	None
PRODUCT NAME	BioCalce Antico

1.2 | RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE & USES ADVISED AGAINST

INTENDED USE	Mineral Paint Based on Mined and Aged Fat Lime
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1.3 | DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

NAME	ROMA – Eco-Sustainable Building Technologies
FULL ADDRESS	554 North Avenue NW, Suite B
DISTRICT & COUNTRY	Atlanta, GA 30318 United States of America (USA) 678-905-3700

1.4 | EMERGENCY TELEPHONE NUMBER

FOR URGENT INQUIRIES REFER TO	Call 911 if you have a poison emergency. Call the CDC if swallowed but person is alert 1-800-222-1222
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2 | HAZARDS IDENTIFICATION

2.1 | CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The product is classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety data sheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

DANGER SYMBOLS	XI, C
R PHRASES	35 – 37

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

2.2 | LABEL ELEMENTS

Hazard labeling pursuant to Directives 67/548/EEC and 1999/45/EC and subsequent amendments and supplements.

IRRITANT

- R36/38** Irritating To Eyes And Skin.
S1/2 Keep Locked Up and Out of the Reach of Children.
S26 In Case Of Contact with Eyes, Rinse Immediately with Plenty of Water and Seek Medical Advice.
S36/37/39 Wear Suitable Protective Clothing, Gloves and Eye/Face Protection.
S45 In Case of Accident or if you Feel Unwell, Seek Medical Advice Immediately (Show the Label Where Possible).



2.3 | **OTHER HAZARDS**

CORROSIVE

- R35** Causes Severe Burns To Eyes.
R37 Irritating to Respiratory System.



CONTAINS: CALCIUM HYDROXIDE

3 | **COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 | **SUBSTANCES**

Information not relevant.

3.2 | **MIXTURES**

IDENTIFICATION	CONC. %	CLASSIFICATION 67/548/EEC	CLASSIFICATION 1272/2008 (CLP)
SILICIC ACID, POTASSIUM SALT			
CAS	–	40 – 42.5	Xi R38, Xi R41
EC	–		
INDEX	–		
CALCIUM CARBONATE			
CAS	471-34-1	32.5 – 35	Xi R37/38, Xi R41
EC	207-439-9		Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335
INDEX	–		

T+ = Very Toxic (T+), T = Toxic (T), Xn = Harmful (Xn), C = Corrosive (C), Xi = Irritant (Xi), O = Oxidizing (O), E = Explosive (E), F+ = Extremely Flammable (F+), F = Highly Flammable (F), N = Dangerous for the Environment (N)

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

4 | **FIRST AID MEASURES**

4.1 | **DESCRIPTION OF FIRST AID MEASURES**

No harm to the staff authorized to use has been reported. However, in case of contact, inhalation or ingestion, the following general measures provided for a first aid shall be taken.

EYES

Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN

Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION

Remove to open air. If breathing is irregular, seek medical advice.

INGESTION

Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

4.2 | **MOST IMPORTANT SYMPTOMS & EFFECTS, BOTH ACUTE & DELAYED**

For symptoms and effects caused by the contained substances see chapter 11.

4.3 | **INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED**

Follow doctor's orders.

5 | **FIREFIGHTING MEASURES**

5.1 | **EXTINGUISHING MEDIA**

SUITABLE EXTINGUISHING MEDIA

The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulized water.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

None in particular.

5.2 | **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc.).

5.3 | **ADVICE FOR FIREFIGHTERS**

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and antistatic), a depressurized mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

6 | ACCIDENTAL RELEASE MEASURES

6.1 | PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES

If there are no contraindications, spray powder with water to prevent the formation of dust. Use breathing equipment if powders are released into the air.

6.2 | ENVIRONMENTAL PRECAUTIONS

The product must not penetrate the sewers, surface water, ground water and neighboring areas.

6.3 | METHODS & MATERIAL FOR CONTAINMENT & CLEANING UP

Use mechanical tools to collect leaked product and eliminate the remainder using jets of water. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 | REFERENCE TO OTHER SECTIONS

Any information on personal protection and disposal is given in sections 8 and 13.

7 | HANDLING & STORAGE

7.1 | PRECAUTIONS FOR SAFE HANDLING

Store in closed, labelled containers.

7.2 | CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Normal storage conditions without particular incompatibilities.

7.3 | SPECIFIC END USE(S)

Information not available.

8 | EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 | CONTROL PARAMETERS

NAME	TYPE	COUNTRY	TWA/8H		STEL/15MIN	
			mg/m ³	ppm	mg/m ³	ppm
Calcium Carbonate	OEL	IRL	4			
	WEL	UK	4			

8.2 | EXPOSURE CONTROLS

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent. If such operations do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.

HANDLING PROTECTION

Protect hands with category III (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVA, butyl, fluoroelastomer or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves` limit depends on the duration of exposure.

EYE PROTECTION

Wear hood visor or protective visor together with airtight goggles (ref. Standard EN 166).

SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and Standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an A or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. Standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. Standard EN 138).

An emergency eye washing and shower system must be provided.

9 | PHYSICAL & CHEMICAL PROPERTIES

9.1 | INFORMATION ON BASIC PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE	White Pulp
COLOR	White
ODOR	Characteristic
ODOR THRESHOLD	-
pH	13
MELTING OR FREEZING POINT	-
BOILING POINT	-
DISTILLATION RANGE	-
FLASH POINT	> 61°C
EVAPORATION RATE	-
FLAMMABILITY OF SOLIDS & GASES	-
LOWER INFLAMMABILITY LIMIT	-
UPPER INFLAMMABILITY LIMIT	-
LOWER EXPLOSIVE LIMIT	-
UPPER EXPLOSIVE LIMIT	-
VAPOR PRESSURE	-
VAPOR DENSITY	-
SPECIFIC GRAVITY	1,300 Kg/l
SOLUBILITY	Acqua
PARTITION COEFFICIENT: N-OCTANOL/WATER	-
IGNITION TEMPERATURE	-
DECOMPOSITION TEMPERATURE	-
VISCOSITY	-
REACTIVE PROPERTIES	-

9.2 | OTHER INFORMATION

VOC (DIRECTIVE 2004/42/EC)	0.00 g/l
VOC (VOLATILE CARBON)	-

Matt coatings for interior walls and ceilings. EU limit value for this product (cat. A/a): 75 g/l (2007) / 30 g/l (2010).

10 | STABILITY & REACTIVITY

10.1 | REACTIVITY

There are no particular risks of reaction with other substances in normal conditions of use.

CALCIUM CARBONATE

Decomposes at temperatures above 800°C.

10.2 | CHEMICAL STABILITY

The product is stable in normal conditions of use and storage.

10.3 | **POSSIBILITY OF HAZARDOUS REACTIONS**

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4 | **CONDITIONS TO AVOID**

None in particular, however the usual precautions used for chemical products should be respected.

10.5 | **INCOMPATIBLE MATERIALS**

Information not available.

10.6 | **HAZARDOUS DECOMPOSITION PRODUCTS**

In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

11 | **TOXICOLOGICAL INFORMATION**

11.1 | **INFORMATION ON TOXICOLOGICAL EFFECTS**

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. Possible vapours are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours. Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness. If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible.

CALCIUM CARBONATE

LD50 (Oral)

450 mg/kg Rat

12 | **ECOLOGICAL INFORMATION**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1 | **TOXICITY**

Information not available.

12.2 | **PERSISTENCE & DEGRADABILITY**

Information not available.

12.3 | **BIOACCUMULATIVE POTENTIAL**

Information not available.

12.4 | **MOBILITY IN SOIL**

Information not available.

12.5 | RESULTS OF PBT & vPvB ASSESSMENT

Information not available.

12.6 | OTHER ADVERSE EFFECTS

Information not available.

13 | DISPOSAL CONSIDERATIONS

13.1 | WASTE TREATMENT METHODS

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14 | TRANSPORT INFORMATION

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

15 | REGULATORY INFORMATION

15.1 | SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

SEVESO CATEGORY None

RESTRICTIONS RELATING TO THE PRODUCT OR CONTAINED SUBSTANCES PURSUANT TO ANNEX XVII TO EC REGULATION 1907/2006.

3

SUBSTANCES IN CANDIDATE LIST (ART. 59 REACH)
None

SUBSTANCES SUBJECT TO AUTHORIZATION (ANNEX XIV REACH)
None

HEALTHCARE CONTROLS Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

VOC (DIRECTIVE 2004/42/EC)

Exterior walls of mineral substrate.

VOC given in g/litre of product in a ready-to-use condition

LIMIT VALUE	40.00 (2010)
VOC OF PRODUCT	0.00

15.2 | CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been processed for the mixture and the substances it contains.

16 | OTHER INFORMATION

TEXT OF HAZARD (H) INDICATIONS MENTIONED IN SECTION 2 – 3 OF THE SHEET

EYE DAM. 1	Serious eye damage, category 1
SKIN IRRIT. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity – single exposure, category 3
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.

TEXT OF RISK (R) PHRASES MENTIONED IN SECTION 2 – 3 OF THE SHEET

R35	Causes Severe Burns.
R37	Irritating to Respiratory System.
R37/38	Irritating to Respiratory System and Skin.
R38	Irritating to Skin.
R41	Risk of Serious Damage to Eyes.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. The Merck Index. – 10th Edition
8. Handling Chemical Safety
9. Niosh – Registry of Toxic Effects of Chemical Substances
10. INRS – Fiche Toxicology (toxicological sheet)
11. Patty – Industrial Hygiene & Toxicology
12. N.I. Sax – Dangerous properties of Industrial Materials-7, 1989 Edition

NOTE FOR USERS

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability & thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health & safety laws & regulations. The producer is relieved from any liability arising from improper uses.