

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

1.1 | PRODUCT IDENTIFIER

CODE	None
PRODUCT NAME	BioCalce Glaze
CHEMICAL NAME & SYNONYM	Decorative Mineral Glaze

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

INTENDED USE	Decorative Mineral Glaze
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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)
CALCIUM HYDROXIDE			
CAS	–	21 – 22.5	Xi R38, Xi R41
EC	–		
INDEX	–		
ETILEN GLICOLE			
CAS	107-21-1	1.5 – 2	Xn R22
EC	203-473-3		
INDEX	603-027-00-1		
ETILEN GLICOLE			
CAS	34590-94-8	0.7 – 0.8	Substance with a community workplace exposure limit.
EC	252-104-2		
INDEX	603-027-00-1		

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**

Nevertheless, observance of good industrial hygiene is recommended.

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

No episodes of damage to health ascribable to the product have been reported.

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

Information not available.

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**

Use breathing equipment if fumes or 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

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. 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, labeled 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
DIPROPYLENE GLYCOL MONOMETHYL ETHER	TLV-ACGIH			100		150	Skin
	OEL	EU	308	50			Skin
	OEL	IRL		50		100	Skin
	WEL	UK		50			Skin

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	Transparent liquid
COLOR	Transparent
ODOR	Characteristic
ODOR THRESHOLD	-
pH	12 – 12.5
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	1,100 Kg/l
SOLUBILITY	Water
PARTITION COEFFICIENT: N-OCTANOL/WATER	–
IGNITION TEMPERATURE	–
DECOMPOSITION TEMPERATURE	–
VISCOSITY	–
REACTIVE PROPERTIES	–

9.2 | OTHER INFORMATION

VOC (DIRECTIVE 2004/42/EC)	0.54% – 5.85 g/l
VOC (VOLATILE CARBON)	–

10 | STABILITY & REACTIVITY

10.1 | REACTIVITY

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

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, vapors potentially dangerous to health may be released.

11 | TOXICOLOGICAL INFORMATION

11.1 | INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

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/liter of product in a ready-to-use condition

LIMIT VALUE 200.00 (2010)

VOC OF PRODUCT 5.85

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

R22 Harmful if Swallowed.

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 and 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 and 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 and safety laws and regulations. The producer is relieved from any liability arising from improper uses.