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

1.1 PRODUCT IDENTIFIER

Code: 611 White, 612 Transparent
Product Name: BioDomus I / Masonry Flat
Chemical Name & Synonym: Mineral Paint Based on Potassium Silicate

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

Intended Use: Silicate Emulsion Paint for Interior/Exterior Use

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name: ROMA USA, LLC
Full Address: 3555 Atlanta Industrial Parkway NW
District & Country: Atlanta, GA 30331 | United States of America (USA)
Phone Number: +1 678-905-3700
E-mail address of the competent person responsible for the Safety Data Sheet: info@romabio.com

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

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

EC CLASSIFICATION: 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.

OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Any additional information concerning the risks for health and/or the environment are given in sections 11,12 & 16 of this sheet.

GHS LABEL ELEMENTS

HAZARD PICTOGRAMS



SIGNAL WORD – Warning

The full wording of the hazard (H) and prevention (P) 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.

HAZARD STATEMENTS
H320: Causes eye irritation.
H316: Causes mild skin irritation.

PREVENTION
P102: Keep out of reach of children.
P103: Read label before use.
P280: Wear protective gloves/eye protection.
P264: Wash hands thoroughly after handling.
P235 + P410: Keep cool. Protect from sunlight.

RESPONSE
P301 + 315: IF SWALLOWED: Get immediate medical advice/attention and show this Container or Label.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If needed seek medical attention.

STORAGE
P404: Store in a closed container.

DISPOSAL
P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 OTHER HAZARDS

Information not available.

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.: 1312-76-1	10 ≤ x < 40	Xi R36/38	Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC.: 215-199-1			
INDEX: –			
TALC			
CAS,: 14807-96-6	3.5 ≤ x < 4	T+ 4 H332	STOTA SE 3 H335
EC.: 238-877-9			
INDEX: –			
TITANIUM DIOXIDE			
CAS.: 13463-67-7	12 ≤ x < 13,5	Carc. 2	H351
EC.: 236-675-5			
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), Carc. = Carcinogen

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.

INHALATION: Bring subject to the open air. If respiration is difficult, call a doctor immediately.

INGESTION: Consult a doctor immediately. Induce vomiting only as directed by your doctor. Do not give anything by moth if the subject is unconscious and if not authorized by the doctor.

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids well. Consult a doctor if the problem persists.

SKIN: Remove contaminated clothing. Wash immediately and abundantly with water. If irritation persists, consult a doctor. Wash contaminated garments before reusing them.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
No episodes of damage to health ascribable to the product have been reported.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND 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 nebulised 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 anti-static), 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 smoke.

6. ACCIDENTAL RELEASE MEASURES
6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES
Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, see the other sections of this sheet. These indications apply for both processing staff and those involved in emergency procedures.

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 inert absorbent material (sand, vermiculite, diatomaceous earth, etc.) to soak up leaked product. Collect the majority of the remaining material and deposit it in containers for disposal. If there are no contraindications, use jets of water to eliminate product residues. 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
Handle the product after consultation with all other sections of this SDS. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before accessing the areas where you eat.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES
Store in a well-ventilated place; keep far away from sources of heat, bright flames and sparks and other sources of ignition. Keep only in the original container. Store closed containers in a well-ventilated area away from direct sunlight. Keep containers away from incompatible materials. See section 10.

7.3 SPECIFIC END USE(S)
Information not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 CONTROL PARAMETERS
Regulatory References: None noted.

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. Personal protection equipment must comply with the rules in force indicated below.

HANDLING PROTECTION
Protect hands with category I (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitrile 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 protective airtight goggles (ref. Standard EN 166).

SKIN PROTECTION
Wear category I 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 (eg TLV-TWA) of the substance, or one or more of the substances present in the product is exceeded, it is advisable to wear a mask with type B filter whose class (1, 2 or 3) which must be chosen according to the limit concentration of use, (see standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

The use of means of protection of the respiratory tract is necessary if the technical measures adopted are not sufficient to limit the exposure of the worker to the threshold values taken into consideration. However, the protection offered by the masks is limited.

In the event that the substance considered is odorless or its olfactory threshold is higher than the relative TLV-TWA and in the event of an emergency, wear an open circuit compressed air breathing apparatus (see standard EN 137) ,or a respirator.

The use of respiratory tract protection equipment, such as masks like that indicated above, is necessary to reduce worker exposure in the absence of technical measures. The protection provided by masks is in any case limited.

9. PHYSICAL & CHEMICAL PROPERTIES
9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Color Palette
Odor	Characteristic
Odor Threshold	–
pH	9.8 WB / 11.3 TB

Melting Or Freezing Point	–
Initial Boiling Point	–
Boiling Range	–
Flash Point	> 61°C
Evaporation Rate	–
Flammability Of Solids And Gases	–
Lower Inflammability Limit	–
Upper Inflammability Limit	–
Lower Explosive Limit	–
Upper Explosive Limit	–
Vapor Pressure	–
Vapor Density	–
Specific Gravity	1,582 Kg/l WB 1,380 Kg/l TB
Solubility	Water
Partition Coefficient: N-Octanol/Water	–
Ignition Temperature	–
Decomposition Temperature	–
Viscosity	–
Reactive Properties	–

9.2 OTHER INFORMATION

VOC (Directive 2004/42/EC): <0.01 g/l Undiluted

Using ROMABIO tints:
Maximum VOC for White Base tinted, Undiluted : 0.52 g/l
Maximum VOC for White Base tinted, Diluted 25% with water : 0.39 g/l
Maximum VOC for Transparent Base tinted, Undiluted : 0.95 g/l
Maximum VOC for Transparent Base tinted, Diluted 25% with water : 0.72 g/l

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

CALCIUM CARBONATE: Acids

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

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

CALCIUM CARBONATE: Calcium Oxides, Carbon Oxides.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

11.2 ACUTE TOXICITY

SILICIC ACID, POTASSIUM SALT
LD50 (Oral): > 2000 mg/kg Rat

CALCIUM CARBONATE
LD50 (Oral): 6450 mg/kg Rat

TITANIUM DIOXIDE
LD50 (Oral): > 10000 mg/kg Rat

11.3 IRRITANT AND CORROSIVE EFFECTS

If swallowed, it may cause mouth, throat and esophagus burns, sickness, diarrhea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastrointestinal tract is also possible.

11.4 RESPIRATORY OR CUTANEOUS SENSITIZATION

Causes mild skin irritation. Category 3

11.5 SPECIFIC TARGET ORGAN TOXICITY

Does not meet the classification criteria for this hazard class.

11.6 ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class.

11.7 CMR EFFECTS (CARCINOGENICITY, MUTAGENICITY AND TOXICITY FOR REPRODUCTION)

Does not meet the classification criteria for this hazard class.

11.8 PRACTICAL EXPERIENCE

Other Observations:
Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

11.9 OVERALL ASSESSMENT ON CMR PROPERTIES

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

There is no information available on the preparation itself . The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and has not been classified.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Handle product according to good working practices. Avoid littering. Do not contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.2 PERSISTENCE & DEGRADABILITY

TALC
Solubility in water < 0,1 mg/l
TITANIUM DIOXIDE
Solubility in water < 0,001 mg/l

12.3 BIOACCUMULATIVE POTENTIAL

Information not available.

12.4 MOBILITY IN SOIL

Information not available.

12.5 RESULTS OF PBT & VPVB ASSESSMENT

Based on the available data, the product does not contain PBT or vPvB substances in percentages greater than 0.1%.

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.

13.2 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.

14.1 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE
Information not relevant.

15. REGULATORY INFORMATION
15.1 SEVESO CATEGORY: Directive 2012/18/CE: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006. None

15.2 SUBSTANCES IN CANDIDATE LIST (ART. 59 REACH):
Based on the available data, the product does not contain SVHC substances in percentages greater than 0.1%.

15.3 SUBSTANCES SUBJECT TO AUTHORIZATION (ANNEX XIV REACH): None

15.4 STATE RIGHT TO KNOW LAWS:
California Prop. 65 Components: This product does not contain chemicals in the California Prop. 65 Components List.

15.5 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.

15.6 VOC (DIRECTIVE 2004/42/EC):
Opaque interior/exterior paint for drywall, wood & masonry. VOC given in g/liter of product in a ready-to-use condition.

VOC OF PRODUCT: 0.00 g/l
LIMIT VALUE: 40.00 g/l (2010)

15.7 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

H320: Causes eye irritation. Category 2B
H316: Causes mild skin irritation. Category 3

Text of prevention (P) phrases mentioned in section 2 – 3 of the sheet:

P102: Keep out of reach of children.
P103: Read label before use.
P280: Wear protective gloves/eye protection.
P264: Wash hands thoroughly after handling.
P235 + P410: Keep cool. Protect from sunlight.
P301 + 315: IF SWALLOWED: Get immediate medical advice/attention and show this Container or Label.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If needed seek medical attention.
P404: Store in a closed container.
P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

16.1 LEGEND
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50% of the popolation subject to test
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TB: Transparent Base
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WB: White Base
- WGK: Water hazard classes (German).

16.2 GENERAL BIBLIOGRAPHY
1. Regulation (CE) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
12. Regulation (EU) 2016/1179 (IX Atp CLP)
13. Regulation (EU) 2017/776 (X Atp CLP) Handling Chemical Safety
14. The Merck Index. – 10th Edition
15. Niosh – Registry of Toxic Effects of Chemical Substances
16. INRS – Fiche Toxicologique (Toxicological Sheet)
17. Patty – Industrial Hygiene & Toxicology
18. N.I. Sax – Dangerous Properties Of Industrial Materials-7, 1989 Edition
19. ECHA website
20. American National Standard for Hazardous Industrial Chemicals - Precautionary Labeling (ANSI Z-129.1-2000).

21. American National Standard for Hazardous Industrial Chemicals - MSDS Preparation (ANSI Z400.1-2004).
22. Health Canada GHS Website: www.healthcanada.ca/ghs;
23. Globally Harmonized System of Classification and Labelling of Chemicals (GHS) ("The Purple Book"), ᵘnited Nations, 2005 First Revised Edition, available at www.unece.org/trans/danger/publi/ghs/ghs_rev01/01files_e.html or from United Nations Publications (publications@un.org)

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.