

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

**1.1 | PRODUCT IDENTIFIER**

|              |                      |
|--------------|----------------------|
| CODE         | None                 |
| PRODUCT NAME | BioDomus Immuno Plus |

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

|              |  |
|--------------|--|
| INTENDED USE | Sanitising Silicate Modified Emulsion Paint for Interior |
|--------------|--|

**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.<br>Call the CDC if swallowed but person is alert 1-800-222-1222 |
|-------------------------------|--|

**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 datasheet 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    |
| R PHRASES      | 52/53 |

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.

|               |  |
|---------------|--|
| <b>S52/53</b> | Harmful to Aquatic Organisms, May Cause Long-Term Adverse Effects in the Aquatic Environment |
| <b>S2</b>     | Keep Out of the Reach Of Children.   |
| <b>S37</b>    | Wear Suitable Gloves.  |

**S46** If Swallowed, Seek Medical Advice Immediately and Show this Container or Label.

**CONTAINS** 2-OTTIL-2H-ISOTIAZOL-3-ONE

May produce an allergic reaction



### 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)   |
|-------------------------------------|--------------|--------------|---------------------------|--|
| <b>SILICIC ACID, POTASSIUM SALT</b> |              |              |                           |  |
| CAS.                                | 1312-76-1    | 0.5          | Xi R36/38                 | Eye Irrit. 2 H319, Skin Irrit. 2 H315  |
| EC.                                 | 215-199-1    |              |                           |  |
| INDEX                               | –            |              |                           |  |
| Reg. NO. 01-2119456888-17           |              |              |                           |  |
| <b>SILICIC ACID, POTASSIUM SALT</b> |              |              |                           |  |
| CAS.                                | 7761-88-8    | 0.025 – 0.10 | C R34, N R50/53, O R 8    | Ox. Liq. 2 H272, Skin Corr. 1B H314, Aquatic Acute 1 H400, 1 H410, Aquatic Chronic |
| EC                                  | 231-853-9    |              |                           |  |
| INDEX                               | 047-001-00-2 |              |                           |  |
| Reg. NO. –                          |              |              |                           |  |

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 & SKIN

Wash with plenty of water; if the irritation persists, seek medical advice.

**INHALATION**

Remove to open air. If respiration is difficult, administer artificial respiration and seek medical advice.

**INGESTION**

Seek 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**

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

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

Follow doctor's orders.

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**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

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, Kieselguhr, 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

Do not smoke while handling and use.

### 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.

### 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 <sup>3</sup> | ppm | mg/m <sup>3</sup> | ppm |
| CALCIUM CARBONATE | TLV-ACGIH |         | 10                |     |                   |     |
| TALC              | TLV-ACGIH |         | 2                 |     |                   |     |
| TITANIUM DIOXIDE  | TLV-ACGIH |         | 10                |     |                   |     |

## 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 II (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 II 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 (if available) 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 B 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 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 & CHEMICAL PROPERTIES

|                                |                |
|--------------------------------|----------------|
| APPEARANCE                     | Liquid         |
| COLOR                          | Color Palette  |
| ODOR                           | Characteristic |
| ODOR THRESHOLD                 | –              |
| pH                             | 7 – 8          |
| 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          | –              |



## 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 carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

#### **CALCIUM CARBONATE**

LD50 (Oral) 6450 mg/kg Rat

#### **TITANIUM DIOXIDE LD50**

(Oral) > 10000 mg/kg Rat

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## 12 | ECOLOGICAL INFORMATION

This product is dangerous for the environment and the aquatic organisms. In the long term, it may even have negative effects on aquatic environment.

### 12.1 | TOXICITY

#### **TERBUTRYN**

LC50 (96h) 1.8 mg/l (Rasbora Heteromorpha)

EC50 (48h) 7.1 mg/l (Daphnia Magna)

IC50 (72h) 0.0036 mg/l (Selenastrum capricornutum)

### 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.

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## 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.

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## 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.

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## 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.

### 15.2 | **CHEMICAL SAFETY ASSESSMENT**

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

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## 16 | **OTHER INFORMATION**

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

**R50/53** Very Toxic To Aquatic Organisms, May Cause Long-Term Adverse Effects In The Aquatic

**R52/53** Harmful To Aquatic Organisms, May Cause Long-Term Adverse Effects In The Aquatic Environment



#### 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 Toxicologique (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.