

1. PRODUCT/PREPARATION/COMPANY




Trade name: **BIOTOOLS Silica Matrix** Company: Biotoools, B & M Labs, S.A.
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 Product Number: 20.083 28021 Madrid
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2. COMPOSITION OF THE PRODUCT/INFORMATION ON INGREDIENTS

Chemical characterisation: Solutions in water. Volume of product package: 1ml.

Active ingredients:

CAS-No	EC no	Name	Contents	Danger1	Risks
7732-18-5	231-791-2	Water	<35%	None	None
14808-60-7	238-878-4	Amorphous silica	65%	T 	R 49 S 22-36-45
7697-37-2	231-714-2	Nitric acid	≈1%	O  C 	R 8-35 S 23-26-36-45

3. HAZARDS IDENTIFICATION
Primary routes of entry

Skin or eye contact from splashes
 Inhalation of the vapor at room temperature is unlikely

Ingestion

Harmful if swallowed. May cause irritation to the gastrointestinal tract.

Skin contact

May cause irritation

Eye contact

Irritating

Evidence for reproductive toxicity, carcinogenicity and mutagenicity

This product contains a component that has been reported to be probably carcinogenic.

Hazard Ingredients	
Amorphous silica	May cause cancer by inhalation. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Do not breath dust. Wear suitable protective clothing.
Nitric acid	Contact with combustible material may cause fire. Causes severe burns. Do not breath vapours. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).Wear suitable protective clothing.

¹ Dangers and risks on active ingredients are applicable to pure ingredients. Amounts present in the specified product are under threshold levels as per Directive 67/548/EC and other European Legislation in force.



4. FIRST AID MEASURES

Because of the toxic and highly absorptive nature of some of the active ingredients of the product, quickly providing first aid helps to minimize health effects.

Skin contact

Wash skin with water and soap and rinse thoroughly. Remove contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Get medical attention.

Eye contact

Rinse opened eyes for at least 15 min with copious amounts of water. Check for and remove any contact lenses. Call a physician.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth with plenty of water. Call a physician. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Non- flammable. Use an extinguishing agent suitable for the surrounding fire.

Fire and explosion hazards

Emits irritant or toxic fumes under fire conditions: nitrogen oxides.

Protective equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear protective gloves and goggles. Do not breathe vapour.

Environmental precautions

Product must not enter ground, sewerage system or water course

Measures for cleaning/collecting

Collect spilled liquid with liquid-binding material or inert absorbent and place it in a container for disposal. Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling

Always keep the containers tightly closed. Observe good laboratory technique when handling.

Storage

Store in the original container, at temperatures 5±3 °C.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

Eye protection

Wear goggles

Hand protection

Wear protective gloves

Skin protection

Wear labcoat

Hygiene measures

General industrial hygiene practice.

Breathing equipment

Use an approved/certified respirator or equivalent.



9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Solutions in water
Colour: whitish
Odour: Odorless
Boiling point: no data available.

Flash point: no data available
Explosive properties: no data available
Vapor pressure: no data available
pH: 5

10. STABILITY AND REACTIVITY

Stability

Stable under normal handling and storage conditions.

Decomposition

Irritating and toxic gases.

Conditions to avoid

Disolves readily in hydrofluoric acid, forming silicon tetrafluoride, a corrosive gas. Reacts violently with powerful oxidizers such as chlorine trifluoride, manganese trifluoride, oxygen difluoride, vinyl acetate, and certain other fluorine-containing compounds. Will be attacked by strong alkalis.

11. TOXICOLOGICAL INFORMATION

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

Acute toxicity

Amorphous silica: oral; rat; LD50: 3160 mg/kg
Nitric acid: inhalation; rat; LD50: 0,13 mg/l/4 h (nitrogen dioxide)

Chronic exposure

Products may cause allergic reactions in certain sensitive individuals
This product contains a component that has been reported to be probably carcinogenic.

Sensitization

No data available

12. ECOLOGICAL INFORMATION

Data not yet available

13. DISPOSAL CONSIDERATIONS

Controlled disposal in waste system. Product disposal (leftovers or residues resulting from normal use) does not pose any serious hazards in the adequate proportion.
The product and packaging should be disposed of in accordance with the instructions of the local authorities.

14. TRANSPORT INFORMATION

RID/ADR

Non-hazardous for road transport

IMDG

Non-hazardous for sea transport

IATA

Non-hazardous for air transport

15. REGULATORY INFORMATION

DANGERS AND RISKS ON ACTIVE INGREDIENTS ARE APPLICABLE TO PURE INGREDIENTS. AMOUNTS PRESENT IN THE SPECIFIED PRODUCT ARE UNDER THRESHOLD LEVELS AS PER DIRECTIVE 67/548/EC AND OTHER EUROPEAN LEGISLATION IN FORCE.

SILICA MATRIX	
Indication of Danger	T Toxic
R phrases	R49 May cause cancer by inhalation.
S Phrases	S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S22 Do not breath dust. S36 Wear suitable protective clothing.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge, and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biotoools, B & M Labs, S.A. shall not be held liable for any damage resulting from handling or from contact with the above product.

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