



**MATERIAL SAFETY DATA SHEET**  
**ACCORDING TO ATTACHMENT II (EC) REGULATION NO. 1907/2006 (REACH)**  
**VERSION 1.0 REVISION DATE 10.01.2012**  
**GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA**

*The product is an object defined as an article in the Regulation (EC) No. 1907/2006 (REACH) Art. 3 Par. 3, not classified as dangerous or not containing substances classified as dangerous, so there is no obligation to issue a safety data sheet according to the Regulation (EC) No. 1907/2006 Art. 31 (Requirements for safety data sheets). The following information complies with the obligation according to Art. 32 (for substances on their own or in preparations for which a safety data sheet is not required), and was issued following the structure by Annex II.*

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

Product name: Precellys lysing kit "Soil grinding SK38"

Application of the product: Each 2mL vial contains beads. This grinding matrix is chemically inert. Precellys® lysing kits are used to grind and lyse cells and tissues from animal, human or plant as well as soil, feces or other complex matrices with bead beating technology.

Product Number: P000915-LYSKO-A.0

Supplier: Bertin Technologies

Company: Bertin Technologies

Parc d'activités du Pas du Lac

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**2. HAZARDS IDENTIFICATION**

CLP Classification (EC regulation n°1272/2008): This substance is not classified as dangerous substance. The product does not have to be labelled.

Other hazards: Risk of slipping due to spillage of product!

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Description	CAS-Number	Name	Percentage % (w/w)
Glass beads 0.1-0.2mm and 3.8-4.4mm	7631-86-9	Silicon dioxide SiO <sub>2</sub>	72.50 % +/- 0.90
	1313-59-3	Sodium oxide Na <sub>2</sub> O	13.00 % +/- 0.80
	1305-78-8	Calcium oxide CaO	9.06 % +/- 0.28
	1344-28-1	Aluminium oxide Al <sub>2</sub> O <sub>3</sub>	4.22 % +/- 0.10
	1309-48-4	Magnesium oxide MgO	0.58 % +/- 0.18
Ceramic beads 1.4-1.6mm made of Zirconium Oxyde, Yttrium stabilized	1314-23-4	Zirconium dioxide ZrO <sub>2</sub> +	100%
	12055-23-1	Hafnium dioxide HfO <sub>2</sub>	

PREC-080-DU006-B



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#### 4. FIRST AID MEASURES

After Inhalation: Provide fresh air.

After Skin Contact: Clean Skin with water and soap.

After Eye Contact: Remove particle carefully from the affected eye. If needed, remove contact lens. Rinse eye thoroughly with plenty of water. Consult a physician if needed.

After Swallowing: Consult a physician after swallowing large quantities.

Advice to the physician: Irritation of skin, mucosa, eyes and to respiratory system through dust are possible.

Decontamination and symptomatic treatments are in most cases sufficient.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents: The product itself is neither combustible nor explosive. Extinguishing agents have to be coordinated with the surrounding fire.

For safety reason unsuitable extinguishing agents: largely unknown.

Special dangers: no information available.

Special protective equipment: protective equipment has to be coordinated with surrounding fire.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal protection: Avoid dust formation. Do not inhale any dust.

Environmental measures: It is not necessary to take actions in respect of product.

Cleaning procedures and absorption: Risk of slipping, if the product is spilled on the floor. Isolate the area and sweep the floor by vacuum in order to collect the beads to avoid slipping on the beads.

#### 7. HANDLING AND STORAGE

Precautions for safe handling: High risk of slipping due to spillage of product. Avoid dust formation.

Conditions for safe storage: Keep container tightly closed in a dry place. Store in tightly closed (original) containers.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional advice on system design: none.

Ingredients with occupational exposure limits to be monitored: none.

Personal protective equipment:

Respiratory protection: dust mask.

Hand protection: protective gloves.

Eye protection: tightly fitting safety glasses.

Body protection: working clothes.

General protective and hygiene measures: avoid dust formation. Do not inhale dust. Avoid contact with eyes and skin.

Restrictions and monitoring of the environmental exposure: There are no known properties of the product, that pose dangers to the environment. General operational measures are sufficient to protect the environment.



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance  
 Physical condition: solid.  
 Shape: round beads.  
 Odor: odorless.  
 Color: white.

Important details regarding health- / environmental protection as well as safety

	<b>Ceramic beads 1.4-1.6 mm made of Zirconium Oxide, Yttrium stabilized</b>	<b>Glass beads 0.1-0.2mm and 3.8- 4.4mm</b>
pH value:	Non-applicable	Non-applicable
Flash point:	Non-applicable	734°C (10 <sup>7,65</sup> dPas)
Self-ignition point (Solid/Gas):	Non-applicable	Non-applicable
Blaze properties:	Non-applicable	Non-applicable
Risk of explosion:	Non-applicable	Non-applicable
Vapor pressure:	Non-applicable	Non-applicable
Softening point(temperature):	between 2100 - 2500°C	1446°C
Specific weight:	6.00 kg/dm <sup>3</sup>	2,50 kg/dm <sup>3</sup>
Bulk density:	between 3.62 - 3.76 kg/dm <sup>3</sup>	1,13-1,52 kg/dm <sup>3</sup>
Water solubility:	Insoluble in water	Insoluble in water
Partition coefficient n-Octanol/ Non-applicable water:	Non-applicable	Non-applicable
Viscosity:	Non-applicable	Non-applicable
Vapor density:	Non-applicable	Non-applicable
Evaporation speed:	Non-applicable	Non-applicable

**10. STABILITY AND REACTIVITY**

Hazardous conditions: the product is stable.  
 Hazardous reactions: none.  
 Hazardous decomposition products: none.

**11. TOXICOLOGICAL INFORMATION**

There is no toxicological data available.  
 Irritation of skin, mucosa, eyes and to respiratory system through dust are possible

**12. ECOLOGICAL INFORMATION**

Ecological respectively ecotoxicological data is not available.  
 According to our knowledge, the product does not cause any damages to the environment, if proper handled and the product has been applied as intended.

**13. DISPOSAL CONSIDERATIONS**

Product: Re-use product is not possible.  
 Contaminated packaging: Dispose of as unused product.



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#### 14. TRANSPORT INFORMATION

Product is not hazardous for transport.

#### 15. REGULATORY INFORMATION

The product comply with the requirements of the European Regulation 1907/2006/EC on the registration, evaluation, authorization and restriction of chemical substances (REACH) and the Regulation 1272/2008/EC on the classification, labelling and packaging of chemical substances (CLP).

#### 16. OTHER INFORMATION

Recommended Limitations of Use:

The product are not a toy and must therefore be stored away from children. A resale as toy requires the EC conformity evaluation and the distributor's compliance with the legal valid regulations. We expressly point out, that a conformity evaluation in this sense has not been carried out.

Further information:

Company details: Bertin Technologies

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Web: [www.bertin-instruments.com](http://www.bertin-instruments.com)

All details noted in this data sheet correspond to our knowledge at the time this data sheet has been put into effect. This information should be used as a guideline for a safe treatment in accordance with the products mentioned in our material safety data sheet, during storage, production, transport and disposal.

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 regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Bertin technologies shall not be held liable for any damage resulting from handling or from contact with the above product.

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Reason for the current version: Update of template.