

## Material Safety Data Sheet ( MSDS )

### **1. Identification of substance**

- **Product details**
- **Product name : Gel Extraction Kit (mi-GE100)**
- **Supplier :** metabion international AG
- **Supplier address:** metabion international AG, Lena-Christ-Str. 44 ,  
82152 Planegg-Martinsried, Germany
- **In case of emergency contact:** +49 (6131) 19240  
Poison Information Center Mainz, Germany

### **2. Composition/Data on components**

- **Chemical characterization**
  - **Description:** Mixture of the substances listed below with non-hazardous additions.
- Dangerous components:** Void

Product Component	Components	Quantity
Gel Extraction Buffer	Guanidine thiocyanate	110 ml
Column Wash Buffer	Ethanol	125 ml

### **3. Hazards identification**

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:** ·  
Not applicable.
- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0 - 4)**

Health = 0

Fire = 0

Reactivity = 0

- **WHMIS-ratings (scale 0 - 4)**

Health = 0

Fire = 0

Reactivity = 0

#### **4. First aid measures**

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Immediately call a doctor.

#### **5. Fire fighting measures**

- **Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Do not inhale explosion gases or combustion gases.

#### **6. Accidental release measures**

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, and sawdust).
- **Additional information:** No dangerous substances are released.

#### **7. Handling and storage**

- **Handling:** No special requirements.
- **Information for safe handling:** Keep receptacles tightly sealed.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:** 15-25°C

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Class according to regulation on flammable liquids:** Void

## **8. Exposure controls and personal protection**

• **Additional information about design of technical systems:** No further data; see item 7.

• **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• **Additional information:**

The lists that were valid during the creation were used as basis.

- **Personal protective equipment:** Not required.
- **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** Protective gloves
- **Eye protection:** Not required.

## **9. Physical and chemical properties**

- **Form:** Fluid
- **Color:** According to product specification
- **Odor:** Characteristic
- **Value/Range Unit Method**
- **Change in condition :** Not applicable.
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Auto igniting:** Product is not self igniting.
- **Danger of explosion:** None
- **Vapor pressure:** at 20 ° C 23 hPa
- **Density:** at 20 ° C 0.99 g/cm<sup>3</sup>
- **Solubility in / Miscibility with Water:** Fully miscible.
- **pH-value:** at 20 ° C 8.0

## **10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Dangerous reactions** Reacts with acids, alkalis and oxidizing agents.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

## **11. Toxicological information**

- **Acute toxicity:** None
- **Primary irritant effect:** None
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

## **12. Ecological information**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## **13. Disposal considerations**

- **Product:**
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## **14. Transport information**

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border):**

- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** Not Dangerous

## **15. Regulations**

**TSCA (Toxic Substances Control Act):** All ingredients are listed.

### • **Proposition 65**

**Chemicals known to cause cancer:** None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity:** None of the ingredients is listed.

### • **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

### • **National regulations:**

• **Classification according to VbF:** Void

• **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

## **16. Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.