

Material Safety Data Sheet (MSDS) mi-BD100

1. Identification of substance

- Product details
- Product name : mi-Bacterial Genomic DNA Isolation Kit (mi-BD100)
- 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
Cell Lysis Buffer	NaOH, SDS	35 ml
PPT Buffer	Guanidine, thiocyanate	30 ml
Column Washing Buffer	Tris HCl, Potassium acetate	125 ml
Column Binding Buffer	Guanidine, thiocyanate	125 ml
Dried RNase A	RNase	3 mg

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: CO₂, 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
- 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.