



Material Safety Data Sheet

1 Identification of substance

- **Product details**
- **Component name:** XPLOREGEN BACTERIAL DNA EXTRACTION KIT (cat# XPBAD22)
- **Kit components:** XBA1, XBA2, XBA3, XBA4, XBA5, XBA6, XBA7, XBA8, XBA9
- **Manufacturer/Supplier:**
 Xploregen Discoveries Pvt. Ltd.
 3rd Floor, 401-4AB Cross, 1st Main,
 Kasturi Nagar, East of NGEF,
 Bengaluru - 560043, Karnataka, India.
 Mail: info@xplorengen.com
 Phone: +91 90355 65835
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2 Hazards identification

- Signal Word : Non-Hazardous
- Health Hazards : Non-Hazardous
- Physical Hazards : Non-Hazardous
- **Principle Routes of Exposure/Potential Health effects**
- Eyes : May cause eye irritation in susceptible persons
- Skin : May cause skin irritation in susceptible persons
- Inhalation : Maybe harmful by inhalation
- Ingestion : Maybe harmful if swallowed
- **Other Effects**
- Carcinogenic Effects : None
- Mutagenic Effects : None
- Reproductive Toxicity : None
- Sensitization : None
- Target Organ Effects : No known effects under normal use conditions
- **HMIS**
- Health : 0
- Flammability : 0
- Reactivity : 0
- Personal Protection : C
- **Note:** C - Safety Glasses, Gloves, Synthetic Apron



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- **Protective equipment:** Do not inhale explosion gases or combustion gases.

3 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **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, sawdust).

4 Handling and storage

- **Handling:**
- **Information for safe handling:** Keep receptacles tightly sealed.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **PLSrther information about storage conditions:** Keep receptacle tightly sealed.

5 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.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all and contaminated clothing. Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Protection of hands:** Protective gloves
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles

6 Physical and chemical properties

· General Information

Form:	Fluid
Color:	Orange
Odor:	Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 100°C (212°F)

- **Flash point:** Not applicable.
- **Auto igniting:** Product is not selfigniting.

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- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapor pressure at 20°C (68°F):** 23 hPa (17 mm Hg)
- **Density at 20°C (68°F):** 0.991 g/cm³
- **Solubility in / Miscibility with Water:** fully miscible.
- **pH-value at 20°C (68°F):** 13.2

7 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:** Danger of toxic pyrolysis products.

8 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** may be cause skin irritation
- **on the eye:** may be cause eye irritation
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

10 Disposal considerations

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

11 Transport information

- **IATA**
- Proper shipping name: Not classified as dangerous in the meaning of transport regulations Hazard class : Not applicable
- Subsidiary Class : Not applicable
- Packing Group : Not applicable

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12 Regulations

- **Sara**
- **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act):**
- **Proposition 65**
- **Chemicals known to cause cancer:**
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.
- **Carcinogen categories**
- **EPA (Environmental Protection Agency)**
None of the ingredients is listed.
- **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.
- **NTP (National Toxicology Program)**
None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.
- **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.
- **Product related hazard informations:**
The product has been classified and marked in accordance with directives on hazardous materials.

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13 Additional information

MSDS prepared by: Xploregen Discoveries Pvt. Ltd.

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