



Material Safety Data Sheet

1 Identification of substance

- **Product details**
- **Component name:** XPLOREGEN SOIL DNA EXTRACTION KIT (cat# XPSOD22)
- **Kit components:** XSO, XSO1, XSO2, XSO3, XSO4, XSO5, XSO6, XSO7, XSO8, XSO9
- **Manufacturer/Supplier:**
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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.
- **Further 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 soiled 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 packagings:**
- **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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