

## Material Safety Data Sheet

### Section 1 CHEMICAL PRODUCT SECTION

- Product Name: Entranster™-R Transfection Reagent
- Product Number: 18668-06,07
- Manufacturer: Engreen Biosystem Co.Ltd. Beiyuan 155, Tongzhou District, Beijing, China.  
Tel: 0086-10-6848-9824

### Section 2 INFORMATION ON HAZARDOUS INGREDIENTS

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

### Section 3 HAZARD IDENTIFICATION

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.  
Warning - contains substance not yet fully tested
- **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

### Section 4 FIRST AID MEASURES

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly. Get medical advice if irritation develops.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Do not allow victim to rub or keep eyes closed.
- **After swallowing:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

### Section 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:** No special measures required.

### Section 6 ACCIDENTAL RELEASE MEASURES

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### Section 7 HANDLING AND STORAGE

- **Handling:**
- **Information for safe handling:** No special measures required.
- **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:** None.

## Section 8 EXPOSURE CONTROL / 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:**  
The usual precautionary measures for handling chemicals should be followed.
- **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.

## Section 9 PHYSICAL AND CHEMICAL PROPERTIES

- **General Information**  
**Form:** Fluid  
**Color:** Colorless  
**Odor:** Odorless
- **Change in condition**  
**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density:** Not determined.
- **Solubility in / Miscibility with Water:** Fully miscible.

## Section 10 STABILITY AND REACTIVITY

- **Chemical Stability:** Stable at 4°C in closed containers under normal storage and handling conditions.
- **Dangerous reactions** Reacts with acids, alkalis and oxidizing agents.
- **Dangerous products of decomposition:** Danger of toxic pyrolysis products.

## Section 11 TOXICOLOGY INFORMATION

- **Acute toxicity:**
- **Primary irritant effect:**
- **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.

## Section 12 ECOLOGICAL INFORMATION

- Data not yet available

## Section 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.

<b>Section 14</b>	<b>TRANSPORTATION INFORMATION</b>
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- **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:** -

<b>Section 15</b>	<b>REGULATORY INFORMATION</b>
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None of the chemicals in this product are listed as Toxic Pollutants under the CWA.  
None of the chemicals in this product are considered highly hazardous by OSHA.

<b>Sections 16</b>	<b>OTHER INFORMATION</b>
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