

Material Safety Data Sheet

Section 1	CHEMICAL PRODUCT SECTION
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- Product Name: Entranster™-in vivo Transfection Reagent
- Product Number: 18668-11
- Manufacturer: Engreen Biosystem Co.Ltd. Beiyuan 155, Tongzhou District, Beijing, China.
Tel: 0086-10-6848-9824

Section 2	INFORMATION ON HAZARDOUS INGREDIENTS
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- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:** Void

Section 3	HAZARD IDENTIFICATION
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- **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
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- **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
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- **Suitable extinguishing agents:**
CO₂, 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
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- **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
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- **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.

Section 14	TRANSPORTATION INFORMATION
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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:** -

Section 15	REGULATORY INFORMATION
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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.

Sections 16	OTHER INFORMATION
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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.