SAFETY DATA SHEET

1. Identification
Product identifier pFucci-G1 Orange (Expression vector)

Other means of identification
Product code AM-V9003M
Recommended use Research use only.
Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information
Manufacturer and Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia) Medical & Biological Laboratories (MBL) Co., Ltd.
4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax +81-52-238-1440
E-mail sds-support@mbl.co.jp
URL http://www.mbl.co.jp/e/index.html
Contact person SDS Support
Supplier MBL International Corporation
15A Constitution Way, Woburn, MA 01801, USA
Telephone number +1-800-200-5459, option 3
Fax +1-781-939-6963
E-mail tech@mblintl.com
URL http://www.mblintl.com/
Contact person Technical Service

2. Hazard(s) identification
Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements
Hazard symbol None.
Signal word None.
Hazard statement None.

Precautionary statement
Prevention Observe good industrial hygiene practices.
Response Wash thoroughly after handling.
Storage None.
Disposal None.

Hazard(s) not otherwise classified (HNOC) None.

3. Composition/Information on ingredients
Mixtures
The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First-aid measures
Inhalation Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.
Skin contact Wash contact areas with soap and water. Get medical attention if irritation develops or persists.
Eye contact Do not rub eye. Rinse the eye with water immediately. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention if irritation develops and persists.
Ingestion Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.
Most important symptoms/effects, acute and delayed Indication of immediate medical attention and special treatment needed General information

Eye/face protection Skin protection Hand protection Other Respiratory protection Thermal hazards General hygiene considerations

Dry skin. Treat symptomatically. Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

None known.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire-fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. After removal, flush contaminated area thoroughly with water. Never return spills to original containers for re-use.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling

Avoid prolonged and repeated contact. Wear appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities

Keep container closed.

8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Provide adequate ventilation. Minimize dust generation and accumulation. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection

If risk of splashing, wear safety goggles or face shield.

Skin protection

Hand protection

Wear protective gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Other

Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection

No protection is ordinarily required under normal conditions of use.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Solid.

Form

Powder.
**Color**
White.

**Odor**
Odorless.

**Odor threshold**
Not available.

**pH**
Not available.

**Melting point/freezing point**
Not available.

**Initial boiling point and boiling range**
Not available.

**Flash point**
Not available.

**Evaporation rate**
Not available.

**Flammability (solid, gas)**
Not applicable.

**Upper/lower flammability or explosive limits**
- **Flammability limit - lower (%)**
  Not available.
- **Flammability limit - upper (%)**
  Not available.

**Vapor pressure**
Not available.

**Vapor density**
Not available.

**Relative density**
Not available.

**Solubility(ies)**
Soluble in water.

**Partition coefficient**
Not available.

**Auto-ignition temperature**
Not available.

**Decomposition temperature**
Not available.

**Viscosity**
Not available.

---

**10. Stability and reactivity**

**Reactivity**
The product is stable and non reactive under normal conditions of use, storage and

**Chemical stability**
Stable at normal conditions.

**Possibility of hazardous reactions**
None known.

**Conditions to avoid**
None known.

**Incompatible materials**
None known.

**Hazardous decomposition products**
No hazard in normal industrial use.

---

**11. Toxicological information**

**Information on likely routes of exposure**

- **Ingestion**
  Large quantities: May cause discomfort if swallowed.

- **Inhalation**
  Dust may irritate respiratory system.

- **Skin contact**
  Prolonged contact may cause dryness of the skin.

- **Eye contact**
  Direct contact with eyes may cause temporary irritation.
  Dry skin.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Information on toxicological effects**

- **Acute toxicity**
  Large quantities: May cause discomfort if swallowed.

- **Skin corrosion/irritation**
  Prolonged contact may cause dryness of the skin.

- **Serious eye damage/eye irritation**
  Direct contact with eyes may cause temporary irritation.

- **Respiratory sensitization**
  No data available.

- **Skin sensitization**
  Not a skin sensitizer.

- **Germ cell mutagenicity**
  No data available.

- **Carcinogenicity**
  No data available.

- **Reproductive toxicity**
  No data available.

- **Specific target organ toxicity**
  - **single exposure**
    No data available.
Specific target organ toxicity  No data available.
- repeated exposure
Aspiration hazard  No data available.

12. Ecological information

Ecotoxicity  The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills have a harmful or damaging effect on the environment.

Persistence and degradability  No data available.
Bioaccumulative potential  No data available.
Mobility in soil  No data available.
Mobility in general  The product is water soluble and may spread in water systems.
Other adverse effects  No data available.

13. Disposal considerations

Disposal instructions  Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations  Dispose of in accordance with local regulations.
Hazardous waste code  Not regulated.
Waste from residues / unused products  Dispose of in accordance with local regulations.
Contaminated packaging  Dispose of in same manner as unused product.

14. Transport information

DOT  Not regulated as dangerous goods.
IATA  Not regulated as dangerous goods.
IMDG  Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  Not applicable.

15. Regulatory information

US federal regulations  This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
   TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  Not regulated.
   CERCLA Hazardous Substance List (40 CFR 302.4)  Not listed.
   Superfund Amendments and Reauthorization Act of 1986 (SARA)
   Hazard categories  Immediate Hazard - No
   Delayed Hazard - No
   Fire Hazard - No
   Pressure Hazard - No
   Reactivity Hazard - No
   SARA 302 Extremely hazardous substance  No
   SARA 311/312 Hazardous chemical  No
   SARA 313 (TRI reporting)  Not regulated.
   Other federal regulations
   Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List  Not regulated.
   Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)  Not regulated.
   Safe Drinking Water Act (SDWA)  Not regulated.
   Drug Enforcement Administration (DEA), List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number  Not regulated.
   Drug Enforcement Administration (DEA), List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))  Not regulated.
   DEA Exempt Chemical Mixtures Code Number  Not regulated.
   Food and Drug Administration (FDA)  Not regulated.
US state regulations

- Massachusetts RTK - Substance List: Not regulated.
- New Jersey Worker and Community Right-to-Know Act: Not regulated.
- Rhode Island RTK: Not regulated.
- California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Not listed.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>EC Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

- Issue date: 01/30/2016
- Revision date: 09/30/2016
- Version: 10
- Further information: Not available.
- Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.