Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name

In-Fusion® HD EcoDry™ Mix

Other means of identification

Product Code

ST0347

Registration number

No information available

Recommended use of the chemical and restrictions on use

Identified uses

For research use only. Not for use in diagnostic procedures

Uses advised against

No information available

Details of the supplier of the safety data sheet

Supplier

Japan:

Takara Bio Inc.

Nojihigashi 7-4-38

Kusatsu, Shiga 525-0058, Japan

Phone: +81.77.565.6920

Web: www.takara-bio.com

China:

Takara Biotechnology (Dalian) Co., Ltd.

19-No.2 Dongbei Street

Dalian Economic and Technical Development Zone

Dalian, 116600

Phone: +86.411.8761.9944

Web: www.takara.com.cn

Korea:

Takara Korea Biomedical Inc.

601, New T Castle, 429-1, Gasan-dong, Geumcheon-gu

Seoul, 153-803

Phone: +82.(0)2.2081.2525

Web: www.takara.co.kr

Emergency telephone number

Emergency telephone

In case of emergency, call PERS (Professional Emergency Resource Services)

1-800-633-8253 (US) or 801-629-0667 (international).

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Signal Word

None
Hazard Statements

Precautionary Statements - Prevention
• Not applicable

Precautionary Statements - Response
• Not applicable

Precautionary Statements - Storage
• Not applicable

Precautionary Statements - Disposal
• Not applicable

Other information
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)
Hazards not otherwise classified (HNOC) Not applicable

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Section 4: FIRST AID MEASURES

General advice
In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation
Move to fresh air.

Skin contact
Wash off immediately with plenty of water for at least 15 minutes.

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Ingestion
Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Not an expected route of exposure.

Notes to physician
Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flammable Properties
May cause fire.

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
No information available.

Specific hazards arising from the chemical
Keep product and empty container away from heat and sources of ignition.

Special Extinguishing Media
Cool drums with water spray.
Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions
For personal protection see section 8.

Environmental precautions
Do not flush into surface water or sanitary sewer system

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Soak up with inert absorbent material.

Prevention of secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling
Advice on safe handling
Avoid contact with skin, eyes and clothing, Handle in accordance with good industrial hygiene and safety practice

Storage
Technical measures/Storage conditions
Keep container tightly closed in a dry and well-ventilated place.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
Other information
These recommendations apply to the product as supplied.

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment
Respiratory protection
None under normal use conditions.

Hand Protection
Latex gloves.

Eye/Face Protection
Tightly fitting safety goggles.

Skin and body protection
Wear suitable protective equipment. Boots.

Hygiene measures
When using, do not eat, drink or smoke, Handle in accordance with good industrial hygiene and safety practice

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Lyophilized cake</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
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<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Unpleasant</td>
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<tr>
<td>Odor Threshold</td>
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<td></td>
</tr>
<tr>
<td>pH VALUE</td>
<td>No information available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ST0347 - In-Fusion® HD EcoDry™ Mix

Explosive properties
No information available

Oxidizing Properties
No information available

VOC Content (%)
No information available

Bulk Density
No information available

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**Section 10: STABILITY AND REACTIVITY**

**Reactivity**
No dangerous reaction known under conditions of normal use

**Stability**
Stable under normal conditions.

**Explosion Data**
- Sensitivity to Mechanical Impact: None.
- Sensitivity to Static Discharge: None.

**Hazardous Reactions**
None under normal processing

**Conditions to Avoid**
None known based on information supplied

**Hazardous Decomposition Products**
None under normal use conditions

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**Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Numerical measures of toxicity - Product Information**

**Unknown acute toxicity**
- 16.88978 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 97.96978 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 99.31978 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 99.31978 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 99.31978 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

The following values are calculated based on chapter 3.1 of the GHS document

- ATEmix (oral) 6,408.00 mg/kg
- ATEmix (dermal) 15,054.00 mg/kg
- ATEmix (inhalation-gas) No information available
**Numerical measures of toxicity - Component Information**

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

- **Skin corrosion/irritation**: No information available.
- **Serious Eye Damage/Eye Irritation**: No information available.
- **Sensitization**: No information available.
- **mutagenic effects**: No information available.
- **Reproductive toxicity**: No information available.
- **STOT - Single Exposure**: No information available.
- **STOT - Repeated Exposure**: No information available.
- **Neurological effects**: No information available.
- **Target Organ Effects**: No information available.
- **Aspiration Hazard**: No information available.

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**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

96.82 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

- **Persistence and degradability**: No information available.
- **Bioaccumulation**: No information available.
- **Mobility**: No information available.

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**Section 13: DISPOSAL CONSIDERATIONS**

- **Waste from Residues / Unused Products**: Dispose of as hazardous waste in compliance with local and national regulations.
- **Contaminated packaging**: Dispose of in accordance with local regulations.

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**Section 14: TRANSPORT INFORMATION**

- **IMDG/IMO**: Not regulated
- **ICAO**: Not regulated
ADR/RID  
Not regulated

ICAO/IATA  
Not regulated

Japan

Section 15: REGULATORY INFORMATION

International Inventories  
For research use only

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Pollutant Release and Transfer Register (Class II):</th>
<th>Pollutant Release and Transfer Register (Class I):</th>
<th>Poisonous and Deleterious Substances Control Law</th>
<th>Restrictions on use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol 56-81-5</td>
<td>Not Applicable</td>
<td>-</td>
<td>Not Applicable</td>
<td>Group</td>
</tr>
</tbody>
</table>

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Section 16: OTHER INFORMATION

Issuing Date  
2016-07-21

Revision Date  
2016-07-21

Revision Note  
No information available.

Key or legend to abbreviations and acronyms used in the safety data sheet
* No information available

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End of Safety Data Sheet