## REF 1001306
### Onyx® Genome Engineering Kit
#### Engineering Consumables – E. coli

<table>
<thead>
<tr>
<th>Consumable ID Number</th>
<th>Consumable Ref Number and Relevant Well</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>1002172</td>
</tr>
</tbody>
</table>

*Note: Consumable wells are numbered such that Well 1 is the well closest to the Chamfer*
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
   Product Form: Mixture
   Product Name: 1002172

1.2. Relevant identified uses of the substance or mixture and uses advised against
   1.2.1. Relevant identified uses
   Use of the substance/mixture: No use is specified.
   1.2.2. Uses advised against
   No additional information available

1.3. Details of the supplier of the safety data sheet
   Company: Inscripta, Inc.
   5764 Pacific Center Blvd
   San Diego, CA 92121
   619-708-8130
   www.inscripta.com
   info@inscripta.com

1.4. Emergency telephone number
   Emergency number: 1-352-323-3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
   Classification According to Regulation (EC) No. 1272/2008 [CLP]
   Not classified

2.2. Label elements
   Labelling According to Regulation (EC) No. 1272/2008 [CLP]
   No labelling applicable

2.3. Other hazards
   PBT: not relevant – no registration required
   vPvB: not relevant – no registration required
   Other hazards not contributing to the classification: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

SECTION 3: Composition/information on ingredients

3.1. Substances
   Not applicable

3.2. Mixtures
   Name | Product identifier | % | Classification According to Regulation (EC) No. 1272/2008 [CLP]
   1,2,3-Propanetriol | (CAS-No.) 56-81-5 (EC-No.) 200-289-5 | 7 – 13 | Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures
   First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
   First-aid measures after inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
   First-aid measures after skin contact: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.
   First-aid measures after eye contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
   First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed
   Symptoms/effects: Not expected to present a significant hazard under anticipated conditions of normal use.
   Symptoms/effects after inhalation: Prolonged exposure may cause irritation.
   Symptoms/effects after skin contact: Prolonged exposure may cause skin irritation.
   Symptoms/effects after eye contact: May cause slight irritation to eyes.
Symptoms/effects after ingestion: Ingestion may cause adverse effects.

Chronic symptoms: None known.

4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable extinguishing media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Not considered flammable but may burn at high temperatures.

Explosion hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Hazardous decomposition products in case of fire: Carbon oxides (CO, CO₂). Irritating fumes.

5.3. Advice for firefighters

Precautionary measures fire: Exercise caution when fighting any chemical fire.

Firefighting instructions: Use water spray or fog for cooling exposed containers.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

6.1.1. For non-emergency personnel

Protective equipment: Use appropriate personal protective equipment (PPE).

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible materials: Strong oxidizers.

7.3. Specific end use(s)

No use is specified.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Country</th>
<th>Limit value [mg/m³]</th>
<th>GVI (granična vrijednost izloženosti) [mg/m³]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>10 mg/m³ (mist)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Croatia</td>
<td></td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

11/03/2022 EN (English) 2/6
1,2,3-Propanetriol (56-81-5)

<table>
<thead>
<tr>
<th>Country</th>
<th>Exposure Limit Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>France</td>
<td>VME [mg/m³]</td>
<td>10 mg/m³ (aerosol)</td>
</tr>
<tr>
<td>Germany</td>
<td>Occupational limit</td>
<td>200 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)</td>
</tr>
<tr>
<td>Greece</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Spain</td>
<td>VLA-ED (mg/m³)</td>
<td>10 mg/m³ (mist)</td>
</tr>
<tr>
<td>Switzerland</td>
<td>KZGW (mg/m³)</td>
<td>100 mg/m³ (inhalable dust)</td>
</tr>
<tr>
<td>Switzerland</td>
<td>MAK (mg/m³)</td>
<td>50 mg/m³ (inhalable dust)</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL TWA (mg/m³)</td>
<td>10 mg/m³ (mist)</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>WEL STEL (mg/m³)</td>
<td>30 mg/m³ (calculated-mist)</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>Expoziční limity (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Estonia</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Finland</td>
<td>HTP-arvo (8h) (mg/m³)</td>
<td>20 mg/m³</td>
</tr>
<tr>
<td>Poland</td>
<td>NDS (mg/m³)</td>
<td>10 mg/m³ (inhalable fraction)</td>
</tr>
<tr>
<td>Slovakia</td>
<td>NPHV (priemerná) (mg/m³)</td>
<td>11 mg/m³</td>
</tr>
<tr>
<td>Slovenia</td>
<td>OEL TWA (mg/m³)</td>
<td>200 mg/m³ (inhalable fraction)</td>
</tr>
<tr>
<td>Slovenia</td>
<td>OEL STEL (mg/m³)</td>
<td>400 mg/m³ (inhalable fraction)</td>
</tr>
<tr>
<td>Portugal</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³ (mist)</td>
</tr>
</tbody>
</table>

**8.2. Exposure controls**

- **Appropriate engineering controls**: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
- **Personal protective equipment**: Gloves. Protective clothing. Protective goggles.
- **Materials for protective clothing**: Chemically resistant materials and fabrics.
- **Hand protection**: Wear protective gloves.
- **Eye and Face Protection**: Chemical safety goggles.
- **Skin and body protection**: Wear suitable protective clothing.
- **Respiratory protection**: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
- **Other information**: When using, do not eat, drink or smoke.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

- **Physical state**: Liquid
- **Appearance**: No data available
- **Colour**: No data available
- **Odour**: No data available
- **Odour threshold**: No data available
- **pH**: No data available
- **Evaporation rate**: No data available
- **Melting point**: No data available
- **Freezing point**: No data available
- **Boiling point**: No data available
- **Flash point**: No data available
- **Auto-ignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: Not applicable
- **Vapour pressure**: No data available
- **Relative vapour density at 20 °C**: No data available
- **Relative density**: No data available
- **Solubility**: No data available
- **Partition coefficient: n-octanol/water**: No data available
Viscosity : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
Hazardous reactions will not occur under normal conditions.

10.2. Chemical stability
Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible materials
Strong oxidizers.

10.6. Hazardous decomposition products
Not expected to decompose under ambient conditions. Thermal decomposition may release acrolein.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

<table>
<thead>
<tr>
<th>1,2,3-Propanetriol (56-81-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>12600 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 10 g/kg</td>
</tr>
<tr>
<td>LC50 Inhalation - Rat</td>
<td>&gt; 570 mg/m³ (Exposure time: 1 h)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT - single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT - repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
Symptoms/Injuries After Inhalation : Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact : Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact : May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion : Ingestion may cause adverse effects.
Chronic Symptoms : None known.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : Not classified.

<table>
<thead>
<tr>
<th>1,2,3-Propanetriol (56-81-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>54000 (51000 – 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>1002172</th>
<th>Persistence and degradability</th>
<th>Not established.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1002172</td>
<td>Bioaccumulative potential</td>
<td>Not established.</td>
</tr>
<tr>
<td>1,2,3-Propanetriol (56-81-5)</td>
<td>Bioaccumulative potential</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1002172</th>
<th>BCF fish 1</th>
<th>(no bioaccumulation)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Partition coefficient n-octanol/water (Log Pow)</td>
<td>1.76</td>
</tr>
</tbody>
</table>
12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment

<table>
<thead>
<tr>
<th></th>
<th>PBT: not relevant – no registration required</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>vPvB: not relevant – no registration required</td>
</tr>
</tbody>
</table>

12.6. Other adverse effects

| Other information | Avoid release to the environment. |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| Product/Packaging disposal | Dispose of contents/container in accordance with local, regional, national, and international regulations. |
| Ecology - waste materials | Avoid release to the environment. |

13.2. Waste management

SECTION 14: Transport information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>Not regulated for transport</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>Dangerous for the environment : No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dangerous for the environment : No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marine pollutant : No</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

14.6. Special precautions for user

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

1,2,3-Propanetriol (56-81-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Date of Preparation or Latest Revision: 08/02/2021

Data sources: Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists
ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
AET – Acute Toxicity Estimate
BCF – Bioconcentration Factor
BEI – Biological Exposure Indices (BEI)
BOD – Biochemical Oxygen Demand
CAS No. – Chemical Abstracts Service Number
CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008
COD – Chemical Oxygen Demand
EC – European Community
EC50 – Median Effective Concentration
EEC – European Economic Community
EINECS – European Inventory of Existing Commercial Chemical Substances
EmS-No. (Fire) – IMDG Emergency Schedule Fire
EmS-No. (Spillage) – IMDG Emergency Schedule Spillage
EU – European Union
ErC50 – EC50 in Terms of Reduction Growth Rate
GHS – Globally Harmonized System of Classification and Labeling of Chemicals
IARC – International Agency for Research on Cancer
IATA – International Air Transport Association
IBC Code – International Bulk Chemical Code
IMDG - International Maritime Dangerous Goods
IPRV – Ilgalaikio Poveikio Ribinis Dydis
IOELV – Indicative Occupational Exposure Limit Value
LC50 – Median Lethal Concentration
LD50 – Median Lethal Dose
LOAEL – Lowest Observed Adverse Effect Level
LOEC – Lowest-Observed-Effect Concentration
Log Koc – Soil Organic Carbon-water Partitioning Coefficient
Log Pow – Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
MAK – Maximum Workplace Concentration/Maximum Permissible Concentration
MARPOL – International Convention for the Prevention of Pollution
NDS – Najwyższe Dopuszczalne Stezenie
NDSCh - Najwyższe Dopuszczalne Stezenie Chwilowe
NOAEL – No-Observed Adverse Effect Level
NOEC – No-Observed Effect Concentration
OEL – Occupational Exposure Limits
PBT – Persistent, Bioaccumulative and Toxic
PEL – Permissible Exposure Limit
pH – Potential Hydrogen
REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals
RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail
SADT – Self Accelerating Decomposition Temperature
SDS – Safety Data Sheet
STEL – Short Term Exposure Limit
STOT – Specific Target Organ Toxicity
TDLV – Theoretical Oxygen Demand
TWA – Time Weighted Average
VOC – Volatile Organic Compounds
VLA-EC – Valor Limite Ambiental Exposición de Cartera Duración
VLA-ED – Valor Limite Ambiental Exposición Diaria
VLE – Valeur Limite D’exposition
vPvB – Very Persistent and Very Bioaccumulative
WEL – Workplace Exposure Limit
WGK – Wassergefährdungsklasse

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.