SAFETY DATA SHEET
rhAmpSeq™ Library Mix 1


SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product name              rhAmpSeq™ Library Mix 1
Product number            10000053

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses            For research and development purposes only.
Uses advised against       No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet
Manufacturer               Integrated DNA Technologies
                          1710 Commercial Park
                          Coralville Iowa, 52241
                          41 Science Park Road
                          #01-28 The Gemini
                          Singapore Science Park II
                          Singapore 117610
                          Republic of Singapore
                          Interleuvenlaan 12A
                          B-3001 Leuven
                          Belgium
                          6828 Nancy Ridge Drive
                          San Diego, California 92121
                          USA
                          custcare@idtdna.com

1.4. Emergency telephone number
Emergency telephone        ChemTrec 800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards            Not Classified
Health hazards               Not Classified
Environmental hazards       Not Classified

Indentification (classification)

2.2. Label elements
Hazard statements           NC Not Classified

2.3. Other hazards
rhAmpSeq™ Library Mix 1

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS number</th>
<th>EC number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>200-289-5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Classified</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments: The exact percentage is withheld as a trade secret.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information:** If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

**Inhalation:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.

**Ingestion:** No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.

**Skin contact:** No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.

**Eye contact:** Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

**Protection of first aiders:** Use protective equipment appropriate for surrounding materials.

#### 4.2. Most important symptoms and effects, both acute and delayed

**General information:** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation:** No specific symptoms known. Spray/mists may cause respiratory tract irritation.

**Ingestion:** No specific symptoms known. May cause discomfort if swallowed.

**Skin contact:** No specific symptoms known. May cause discomfort.

**Eye contact:** No specific symptoms known. May be slightly irritating to eyes.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards:** Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products:** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### 5.3. Advice for firefighters

---

IDT-140-SDS REV 1

2/8
rhAmpSeq™ Library Mix 1

Protective actions during firefighting
Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
No specific recommendations. For personal protection, see Section 8.

6.2. Environmental precautions
Environmental precautions
Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

6.4. Reference to other sections
Reference to other sections
For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions
Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions
Store away from incompatible materials (see Section 10). No specific recommendations.

Storage class
Unspecified storage.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters
Occupational exposure limits
Glycerol
Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

ammonium chloride
Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ fume
Short-term exposure limit (15-minute): WEL 20 mg/m³ fume

sodium azide
Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³ as NaN₃
Short-term exposure limit (15-minute): WEL 0.3 mg/m³

Sk
WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.
rhAmpSeq™ Library Mix 1

8.2. Exposure controls

Protective equipment

Appropriate engineering controls  No specific ventilation requirements.

Eye/face protection  No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection  No specific hand protection recommended. Large Spillages: Wear protective gloves.

Other skin and body protection  Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures  Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection  No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls  Not regarded as dangerous for the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance  Liquid.

Colour  Colourless.

Odour  Odourless.

Odour threshold  Not available.

pH  Not available.

Melting point  Not available.

Initial boiling point and range  Not available.

Flash point  No specific test data are available.

Evaporation rate  Not available.

Evaporation factor  Not available.

Flammability (solid, gas)  Not available.

Upper/lower flammability or explosive limits  Not available.

Other flammability  Not available.

Vapour pressure  Not available.

Vapour density  Not available.

Relative density  Not available.

Bulk density  Not available.

Solubility(ies)  Not available.

Partition coefficient  Not available.

Auto-ignition temperature  Not available.

Decomposition Temperature  Not available.

Viscosity  Not available.
rhAmpSeq™ Library Mix 1

Explosive properties  Not considered to be explosive.
Explosive under the influence of a flame  Not available.
Oxidising properties  Not available.

 SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity  See the other subsections of this section for further details.

10.2. Chemical stability
Stability  Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions  No potentially hazardous reactions known.

10.4. Conditions to avoid
Conditions to avoid  There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials
Materials to avoid  No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products
Hazardous decomposition products  Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

 SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological effects  Not regarded as a health hazard under current legislation.
Acute toxicity - oral  Based on available data the classification criteria are not met.
Notes (oral LD₅₀)  Based on available data the classification criteria are not met.
Acute toxicity - dermal  Based on available data the classification criteria are not met.
Notes (dermal LD₅₀)  Based on available data the classification criteria are not met.
Acute toxicity - inhalation  Based on available data the classification criteria are not met.
Notes (inhalation LC₅₀)  Based on available data the classification criteria are not met.
Skin corrosion/irritation  Based on available data the classification criteria are not met.
Animal data  Based on available data the classification criteria are not met.
Serious eye damage/irritation  Based on available data the classification criteria are not met.
Respiratory sensitisation  Based on available data the classification criteria are not met.
Skin sensitisation  Based on available data the classification criteria are not met.
Germ cell mutagenicity  Based on available data the classification criteria are not met.
Genotoxicity - in vitro  Based on available data the classification criteria are not met.
Carcinogenicity
rhAmpSeq™ Library Mix 1

**Carcinogenicity**
Based on available data the classification criteria are not met.

**IARC carcinogenicity**
None of the ingredients are listed or exempt.

**Reproductive toxicity**

**Reproductive toxicity - fertility**
Based on available data the classification criteria are not met.

**Reproductive toxicity - development**
Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure**

**STOT - single exposure**
Not classified as a specific target organ toxicant after a single exposure.

**Target organs**
Respiratory system, lungs

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure**
Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard**
Based on available data the classification criteria are not met.

**General information**
No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**
No specific symptoms known. Spray/mists may cause respiratory tract irritation.

**Ingestion**
No specific symptoms known. May cause discomfort if swallowed.

**Skin contact**
No specific symptoms known. May cause discomfort.

**Eye contact**
No specific symptoms known. May be slightly irritating to eyes.

**Route of exposure**
Ingestion Inhalation Skin and/or eye contact

**Target organs**
No specific target organs known.

**SECTION 12: Ecological information**

**Ecotoxicity**
Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

**12.1. Toxicity**
Based on available data the classification criteria are not met.

**12.2. Persistence and degradability**

**Persistence and degradability**
The degradability of the product is not known.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential**
No data available on bioaccumulation.

**Partition coefficient**
Not available.

**12.4. Mobility in soil**

**Mobility**
No data available.

**12.5. Results of PBT and vPvB assessment**

**12.6. Other adverse effects**
None known.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**General information**
The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.
rhAmpSeq™ Library Mix 1

Disposal methods

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

SECTION 14: Transport information

14.1. UN number
UN No. (IATA)

14.2. UN proper shipping name
Proper Shipping Name (IATA)

14.3. Transport hazard class(es)
IATA Hazard Class

14.4. Packing group
IATA Packing Group

14.5. Environmental hazards

14.6. Special precautions for user

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

SECTION 15: Regulatory information

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

National regulations
Health and Safety at Work etc. Act 1974 (as amended).

EU legislation

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS
None of the ingredients are listed or exempt.

SECTION 16: Other information
rhAmpSeq™ Library Mix 1

**Abbreviations and acronyms used in the safety data sheet**

- **ADR**: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- **ADN**: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- **RID**: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- **IATA**: International Air Transport Association.
- **ICAO**: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
- **IMDG**: International Maritime Dangerous Goods.
- **CAS**: Chemical Abstracts Service.
- **ATE**: Acute Toxicity Estimate.
- **LC₅₀**: Lethal Concentration to 50 % of a test population.
- **LD₅₀**: Lethal Dose to 50% of a test population (Median Lethal Dose).
- **EC₅₀**: 50% of maximal Effective Concentration.
- **PBT**: Persistent, Bioaccumulative and Toxic substance.
- **vPvB**: Very Persistent and Very Bioaccumulative.

**Classification abbreviations and acronyms**

- Acute Tox. = Acute toxicity
- Eye Dam. = Serious eye damage
- Skin Corr. = Skin corrosion
- STOT SE = Specific target organ toxicity-single exposure

**Classification procedures according to Regulation (EC) 1272/2008**


**Training advice**

Only trained personnel should use this material.

**Revision comments**

Contact legal for statement

**Revision date**

16/08/2018

**Revision**

1

The information in this safety data sheet is, to the best of our knowledge, correct as of the date it was issued. We do not guarantee that this safety data sheet includes all the information necessary for your intended use. You (the user) are responsible for determining whether this material or product is suitable for your particular purpose.