SECTION 1 Chemical product and company identification

Chinese name of chemical: Illumina® 8 Rx用Dovetail™ 双标引物组#1
English name of chemical: Dovetail™ Dual Index Primer Set #1 for Illumina® 8 Rx
Synonyms:
- DG-XG1 Unique Dual Index Primer Pair 1
- DG-XG2 Unique Dual Index Primer Pair 2
- DG-XG3 Unique Dual Index Primer Pair 3
- DG-XG4 Unique Dual Index Primer Pair 4
- DG-XG5 Unique Dual Index Primer Pair 5
- DG-XG6 Unique Dual Index Primer Pair 6
- DG-XG7 Unique Dual Index Primer Pair 7
- DG-XG8 Unique Dual Index Primer Pair 8

Product code: DG-PRS-002
Company Name: UltraVision Technology Limited
Address: Room 1210, Unit 3, Long De Zi Jin mansion, No. 186 Li Tang Road, Changping district, Beijing ,PR China
Telephone: 17717469190
Website: dovetailgenomics.com
Emergency phone number: +86 4001 2001 74

Access code: 334943

Recommended use and Limitations on use
Recommended use: Molecular Biology Kit.
Limitations on use: Use in accordance with manufacturer's recommendations.

Issue date: 08-June-2021
Revision date: -
Supersedes date: -

SECTION 2 Hazards identification

Emergency overview: Health injuries are not known or expected under normal use.

GHS hazard categories:
- Not classified.

Label elements:
- Pictograms: None.
- Signal word: None.

Hazard statement: The mixture does not meet the criteria for classification.

Precautionary statement:
- Prevention: Observe good industrial hygiene practices.
- Response: Wash hands after handling.
- Safety storage: Store away from incompatible materials.
- Disposal: Dispose of waste and residues in accordance with local authority requirements.

Physical and chemical hazards:
The product is stable and non-reactive under normal conditions of use, storage and transport. No unusual fire or explosion hazards noted.

Health hazards:
Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.

Environmental hazards:
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Supplemental information:
None.

SECTION 3 Composition/information on ingredients
Substance/mixture: Mixture
The components are not hazardous or are below required disclosure limits.

SECTION 4 First aid measures
Inhalation:
Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact:
Wash off with soap and water. Get medical attention if irritation develops and persists.
Product name: Dovetail™ Dual Index Primer Set #1 for Illumina® 8 Rx

Eye contact
Rinse with water. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms and health effects
Direct contact with eyes may cause temporary irritation.

Personal protection for first-aid responders
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Notes to physician
Treat symptomatically.

SECTION 5 Fire-fighting measures
Extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Extinguishing media to avoid
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards
During fire, gases hazardous to health may be formed.

Special fire fighting procedures
Move containers from fire area if you can do so without risk.

Protection of fire-fighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards
No unusual fire or explosion hazards noted.

SECTION 6 Accidental release measures
Personal precautions, protective equipment and emergency procedures
Wear appropriate personal protective equipment.

For non-emergency personnel
Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

For emergency responders
Avoid discharge into drains, water courses or onto the ground.

Environmental precautions
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Prevention of secondary hazards
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

SECTION 7 Handling and storage
Handling
Observe good industrial hygiene practices. Avoid prolonged exposure.

Storage
Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8 Exposure controls/personal protection
Exposure limits
No exposure limits noted for ingredient(s).

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

Monitoring methods
Follow standard monitoring procedures.

Engineering measures
Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

Personal protective equipment
Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection
Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Eye protection
Wear safety glasses with side shields (or goggles).

Skin and body protection
Wear suitable protective clothing.

Hygiene measures
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.
SECTION 9 Physical and chemical properties

Appearance

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point, initial boiling point, and boiling range</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Solubility(ies)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility (water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Auto-ignition temperature

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Decomposition temperature

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Flammability (solid, gas)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

SECTION 10 Stability and reactivity

Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>The product is stable and non-reactive under normal conditions of use, storage and transport.</td>
</tr>
</tbody>
</table>

Stability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Material is stable under normal conditions.</td>
</tr>
</tbody>
</table>

Possibility of hazardous reactions

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No dangerous reaction known under conditions of normal use.</td>
</tr>
</tbody>
</table>

Conditions to avoid

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions to avoid</td>
<td>Contact with incompatible materials.</td>
</tr>
</tbody>
</table>

Incompatible materials

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatible materials</td>
<td>Strong oxidizing agents.</td>
</tr>
</tbody>
</table>

Hazardous decomposition products

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous decomposition products</td>
<td>No hazardous decomposition products are known.</td>
</tr>
</tbody>
</table>

SECTION 11 Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not expected to be acutely toxic.</td>
</tr>
</tbody>
</table>

Routes of exposure

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routes of exposure</td>
<td>Eye contact. Skin contact. Ingestion. Inhalation.</td>
</tr>
</tbody>
</table>

Symptoms

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptoms</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Prolonged skin contact may cause temporary irritation.</td>
</tr>
</tbody>
</table>

Serious eye damage/eye irritation

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
</tbody>
</table>

Respiratory or skin sensitization

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory sensitization</td>
<td>Not a respiratory sensitizer. Although there is no evidence that the enzyme in this mixture induces specific respiratory hypersensitivity, all proteins are potential respiratory allergens and may result in respiratory sensitization in certain individuals after repeated and/or prolonged inhalation exposure.</td>
</tr>
</tbody>
</table>

Skin sensitizer

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin sensitizer</td>
<td>This product is not expected to cause skin sensitization.</td>
</tr>
</tbody>
</table>

Germ cell mutagenicity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.</td>
</tr>
</tbody>
</table>

Carcinogenicity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity</td>
<td>Not classifiable as to carcinogenicity to humans.</td>
</tr>
</tbody>
</table>

Toxic to reproduction

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxic to reproduction</td>
<td>This product is not expected to cause reproductive or developmental effects.</td>
</tr>
</tbody>
</table>

Specific target organ toxicity following single exposure

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific target organ toxicity following single exposure</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>
Specific target organ toxicity following repeated exposure Not classified.
Aspiration hazard Not an aspiration hazard.
Chronic effects None known.
Other information The toxicological properties of this material have not been fully investigated.

SECTION 12 Ecological information
Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability No data is available on the degradability of this product.
Bioaccumulation No data available.
Mobility in soil No data available for this product.
Other hazardous effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 Disposal considerations
Residual waste Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Local disposal regulations Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14 Transport information
CNDG 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 established.

SECTION 15 Regulatory information
Regulations on the Control over Safety of Dangerous Chemicals Not regulated.
Provision on the Environmental Administration of New Chemical Substances

Country(s) or region Inventory name On inventory (yes/no)*
China Inventory of Existing Chemical Substances in China No
(IECSC)

*A "Yes" indicates that all components of this product comply 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).

Other regulations This safety data sheet conforms to the following laws, regulations and standards:
Measures for the Safe Use of Chemicals in Workplaces
General Rules for Preparation of Precautionary Labels for Chemicals (GB15258-2009)
Regulations on Labor Protection in Workplaces Where Toxic Products Are Used
Packaging Symbol of Dangerous Goods (GB190-2009)
Regulations on the Control over Safety of Dangerous Chemicals
Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008)
Packaging - Pictorial Marking for Handling of Goods (GB/T191-2008)

International regulations
Stockholm Convention Not applicable.
Rotterdam Convention Not applicable.
Montreal Protocol
Not applicable.

Kyoto protocol
Not applicable.

Basel Convention
Not applicable.

SECTION 16 Other information

References
EPA: AQUIRE database
IARC Monographs. Overall Evaluation of Carcinogenicity
NLM: Hazardous Substances Data Base

Disclaimer
Dovetail Genomics, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.