ULTIMA GENOMICS

Safety Data Sheet

5mM Biotin in Loading Buffer

SECTION 1: Identification

1.1. Product identifier

Product name: 5mM Biotin in Loading Buffer
Part number: R0000668

1.2. Other means of identification

Not applicable.

1.3. Recommended use of the chemical and restrictions on use

Reagent

1.4. Supplier's details

Name	Ultima Genomics, Inc. 4209 Technology Drive., Fremont, CA 94538 USA
Telephone	+1-510-330-5110
Email	SDS@ultimagen.com

1.5 Emergency telephone number

Telephone	PERS 24 Hour Emergency Phone Numbers (USA) 1-800-633-8253 1-801-629-0667

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (CFR 1910.1200)

Acute oral toxicity	Category 4
Acute inhalation toxicity - Vapors	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/Eye irritation	Category 1

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word **Danger**

Hazard statement(s)

H315	Causes skin irritation
H319	Causes serious eye irritation

H301+332	Harmful if swallowed or inhaled

Precautionary statement(s)

P264	Wash hands and exposed thoroughly after handling
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P301+310+330	IF SWALLOWED: Call a poison center or doctor/physician if you feel unwell. Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.

2.3 Hazards not otherwise classified (HNOC)
None known.

SECTION 3: Composition/Information on Ingredients

3.1 Substance / Mixture
Mixture

3.2 Hazardous components*

Component	CAS No.	Concentration
Alcohols, C11-15-secondary, ethoxylated	68131-40-8	<0.5% (weight)

Trade secret statement (OSHA 1910.1200(i))
*The specific chemical identities and/or actual concentrations for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-Aid Measures

4.1 Description of necessary first-aid measures

If inhaled	Remove to fresh air and promote deep breathing. Get medical attention if effects persist.
In case of skin contact	Immediately remove all contaminated clothing. Rinse affected areas with soap and water. Get medical attention if irritation develops or persists.
In case of eye contact	Rinse with plenty of water. Remove contact lenses. Get medical attention if irritation persists.
If swallowed	Clean mouth with water and drink plenty of water afterwards.

4.2 Most important symptoms/effects, acute and delayed
Causes eye burns. Causes severe eye damage.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
No data available.

SECTION 5: Firefighting Measures

5.1 Suitable extinguishing media
Water
Foam
Carbon dioxide (CO2)
Dry powder

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

5.3 Hazardous combustion products
None known.

5.4 Special protective actions for firefighters
In case of fire, wear self- contained breathing apparatus. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance.

Further information
No data available.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protection recommended in Section 8.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions
Do not let product enter drains without pre-treatment or adequate dilution.

6.3 Methods and materials for containment and cleaning up
Cover drains.
Collect, bind, and pump off spills.
Observe possible material restrictions.
Soak up with inert absorbent material.
Pick up and keep in suitable, closed containers for disposal.

Reference to other sections
Hazardous combustion products: see Section 5
Personal protective equipment: see Section 8
Incompatible materials: see Section 10
Disposal considerations: see Section 13.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practices.
Avoid contact with skin and eyes.
Do not eat, drink, or smoke while handling.
Wash hands with soap and water after handling.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry, cool, and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use(s)
Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Component	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Alcohols, C11-15-secondary, ethoxylated	None	None	None	None

8.2 Engineering controls
No data available.

8.3 Exposure controls

Hand protection
Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Eye protection
Tight sealing safety goggles.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Colorless liquid.
Odor	Odorless.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Density	No data available.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Molecular weight	No data available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other safety information
No data available.

SECTION 10: Stability and Reactivity

Reactivity
Non-reactive under normal use conditions.

Chemical stability
Stable under normal storage conditions.

Possibility of hazardous reactions
No data available.

Conditions to avoid
Keep away from incompatible materials.

Incompatible materials
Strong oxidizers, strong acids, strong bases

Hazardous decomposition products
In event of fire, see Section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity Estimate (ATE)			
Chemical Name	**Oral LD50**	**Dermal LD50**	**Inhalation LC50**
Alcohols, C11-15-secondary, ethoxylated	2100 mg/kg (Rat)	>14 g/kg (Rat)	1.06 mg/L/4h (Rat)

Acute toxicity
No data available.

Skin corrosion/irritation
Irritating to skin.

Serious eye damage/irritation
Irritating to eyes. Can cause eye burns.

Respiratory or skin sensitization
No data available.

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Based on available data, classification data are not met.

STOT-single exposure
Based on available data, classification data are not met.

STOT-repeated exposure
Based on available data, classification data are not met.

Aspiration hazard
Based on available data, classification data are not met.

SECTION 12: Ecological information

Aquatic Toxicity
No data available on product.

Persistence and degradability
No data available on product.

Bioaccumulative potential
No data available on product.

Mobility
May be mobile in the environment due to its water solubility.

Chemical Name	log Pow
Alcohols, C11-15-secondary, ethoxylated	log POW = 2.72

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects
No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13: Disposal Considerations

Disposal of the product
Disposal should be in accordance with applicable Federal, State, and local laws and regulations. Local regulations may more stringent than State or Federal requirements.

Disposal of contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

IATA / ADR / DOT – US / IMDG
Not regulated in the meaning of transport regulation

SECTION 15: Regulatory information

U.S. Toxic Substances Control Act (U.S. TSCA)

Component	CAS No.	TSCA
Alcohols, C11-15-secondary, ethoxylated	68131-40-8	Listed

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards
Chronic health hazard.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 Components
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

16.1 Further information/disclaimer

Date of issue: 01 December 2025

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. All materials may present unknown hazards and should be used with caution. In no event shall we be held liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, or consequential or exemplary damages, whatsoever arising, even if we have been advised of the possibility of such damages.