LBSO-RD-SDS-DB2-001

SAFETY DATA SHEET

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

a. Product Name : Cell Dilution Buffer Ⅱ

Product Number : F53001 (1 x 25 mL), F53002 (5 x 20 mL)

b. Relevant identified uses of the substance or mixture and uses advised against : **Identified uses**
Laboratory chemicals, Manufacture of substances

c. Manufacturer & Supplier : Aligned Genetics, Inc
18 Gosan-ro 148beon-gil,
Gunpo-si,
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For research use only. Not intended for human or animal diagnostic or therapeutic use.

SECTION 2: Hazards identification

a. GHS classification

Classification according to Regulation (EC) No 1272/2008
Eye irritation (Category2)
Chronic aquatic toxicity (Category3)

b. GHS-Labeling

Labeling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word
Warning

Hazard statements
H302 – Harmful if swallowed.
H319 – Causes serious eye irritation.
H412 – Harmful to aquatic life with long lasting effects.

Precautionary statements
P264 – Wash hands thoroughly after handling.
P270 – Do not eat, drink, or smoke when using this product.
P280 – Wear protective gloves, eyewear, and clothing.
P273 – Avoid release to the environment.
P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P312 – If eye irritation persists: Get medical advice/attention.
P501 – Dispose of contents/container to an approved waste disposal plant.

c. Other hazard which do not result in classification

This substance/mixture contains no components considered to be either persistent, bioaccumulative
and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/ Information on ingredients

3b. Mixtures

Component:	Trade secret
CAS-No.:	Trade secret
Weight%:	< 5%

SECTION 4: First aid measures

a. In case of eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

b. In case of skin contact
Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.

c. If inhaled
Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

d. Ingestion
Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical service

e. Most important symptoms and effects, both acute and delayed
None

f. Indication of any immediate medical attention and special treatment needed
No data available.

SECTION 5: Firefighting measures – 작성중

a. Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

b. Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

c. Further information
No data available.

SECTION 6: Accidental release measures

a. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment.

b. Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

c. Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

d. Reference to other sections
For disposal, see section 13.

SECTION 7: Handling and storge

a. Precautions for safe handling
Always wear recommended personal protective equipment. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

b. Conditions for safe storge
Keep containers tightly closed in a dry, cool and well-ventilated place.
Containers that are opened must be carefully resealed and kept upright to prevent leakage.

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

SECTION 8: Exposure controls/ personal protection

a. Control parameters
Components with workplace control parameters.

b. Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of a workday. Prevent product from entering drains.

c. Personal protective equipment

Hand protection
Impervious gloves.

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

Skin and Body protection
Lightweight, protective clothing.

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

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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

a.	**Appearance**	Form: liquid
b.	**Odor**	No data available
c.	**Odor Threshold**	No data available
d.	**pH**	7.3 – 7.5
e.	**Melting point/freezing point**	No data available
f.	**Initial boiling point and boiling range**	100℃
g.	**Flash point**	No data available
h.	**Evaporation rate**	No data available
i.	**Flammability (solid, gas)**	No data available
j.	**Lower explosion limit**	No data available
k.	**Upper explosion limit**	No data available
l.	**Vapour pressure**	No data available
m.	**Vapour density**	No data available
n.	**Specific Gravity/Relative density**	No data available
o.	**Water Solubility**	Soluble
p.	**Partition coefficient: n-octanol / water**	No data available
q.	**Auto-ignition temperature**	No data available
r.	**Decomposition temperature**	No data available
s.	**Viscosity**	No data available
t.	**Explosive properties**	No data available
u.	**Oxidizing properties**	No data available

Other safety information
No data available

SECTION 10: Stability and reactivity

a. Stability
Stable under normal conditions.

b. Reactivity
No data available**.**

c. Possibility of hazardous reactions
No data available.

d. Conditions to avoid
No data available.

e. Incompatible materials
Strong acids, Strong bases, Strong oxidizing agents.

f. Hazardous decomposition products
Hazardous decomposition products formed under fire conditions – Carbon oxides
Other decomposition products – No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

a. Delayed and immediate effects and also chronic effect from short and long term exposure

Acute toxicity

No data available.

Skin corrosion/irritation
No data available.

Serious eye damage/eye irritation
No data available.

Respiratory or skin sensitization
No data available.

Germ cell mutagenicity
No data available.

Carcinogenicity

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity
No data available.

Specific target organ toxicity – single exposure
No data available.

Specific target organ toxicity – repeated exposure
No data available.

Aspiration hazard
No data available.

Additional information
RTECS: Not available.

SECTION 12: Ecological information

a. **Toxicity**
No data available.

b. **Persistence and degradability**
No data available.

c. **Bioaccumulative potential**
No data available.

d. **Mobility in soil**
No data available.

e. **Results of PBT and vPvB assessment**
This substance/mixture contains no components considered to be either persistent, bioaccumulative, and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

f. **Other adverse effects**
Harmful to aquatic life with long-lasting effects.

SECTION 13: Disposal considerations

a. **Disposal methods**
Offer surplus and non-recyclable solutions to a licensed disposal company.

b. **Contaminates packaging**
Dispose of as unused product.

SECTION 14: Transport information

UN number	ADR/RID: -	IMDG: -	IATA: -
UN proper shipping name	ADR/RID: Not dangerous goods	IMDG: Not dangerous goods	IATA: Not dangerous goods
Transport hazard class(es)	ADR/RID: -	IMDG: -	IATA: -
Packaging group	ADR/RID: -	IMDG: -	IATA: -
Environmental hazards	ADR/RID: no	IMDG Marine pollutant: no	IATA: no
Special precautions for user	No data available		

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

a. **Regulation under the Occupational Safety and Health Ac**
No data available.

b. **Chemical safety assessment**
For this product, a chemical safety assessment was not carried out.

SECTION 16: Other information

Further information

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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and applies to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aligned Genetics, Inc. and its Affiliates shall not be held liable for any damage resulting from handling or contact with the above product. See the reverse side of the invoice or packing slip for additional terms and conditions of sale.

End of Safety Data Sheet