

SAFETY DATA SHEET

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

- a. Product Name : Cell Dilution Buffer
- Product Number : F23212
- 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,
Gyeonggi-do,
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Telephone: +82-31-478-4185
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SECTION 2: Hazards identification

a. GHS classification

Classification according to Regulation (EC) No 1272/2008
Not hazardous

b. GHS-Labeling

Labeling according to Regulation (EC) No 1272/2008

Hazard pictograms
None

Signal word
Not hazardous

Hazard statements
Not hazardous

Precautionary statements
Not hazardous

c. Other hazard which do not result in classification

None

SECTION 3: Composition/ Information on ingredients

3b. Mixtures

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

- a. In case of eye contact**
Flush eyes with water. Consult a physician.
- b. In case of skin contact**
Wash off with soap and plenty of water.
- c. If inhaled**
If breathed in, move person into the fresh air. If not breathing, give artificial respiration.
- d. If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water.
- e. Indication of any immediate medical attention and special treatment needed**
No data available.

SECTION 5: Firefighting measures

- a. Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- b. Specific hazards arising from the chemical**
Nature of decomposition products is not known.
- c. Special protective actions for fire-fighters**
Wear self-contained breathing apparatus and protective suit.
- d. Further information**
No data available.

SECTION 6: Accidental release measures

- a. Personal precautions, protective equipment and emergency procedures**
Avoid breathing vapors, mist or gas.
- b. Environmental precautions**
No special environmental precautions required.
- c. Methods and materials for containment and cleaning up**
Keep in suitable, closed containers for disposal.
- d. Reference to other sections**
For disposal see section 13.

SECTION 7: Handling and storage

- a. Precautions for safe handling**
No data available.
- b. Conditions for safe storage**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

c. Specific end use(s)

No data available.

SECTION 8: Exposure controls/ personal protection

a. Control parameters

Components with workplace control parameters.

b. Appropriate engineering controls

General industrial hygiene practice.

c. Personal protective equipment

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and Body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental exposure

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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

a. Appearance	Form: liquid Colour: colorless
b. Odor	No data available
c. Odor Threshold	No data available
d. pH	No data available
e. Melting point/freezing point	No data available
f. Initial boiling point and boiling range	100°C
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. Solubility	No data available
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. Dynamic viscosity	No data available

Other safety information
No data available

SECTION 10: Stability and reactivity

- a. Stability**
No data available
- b. Reactivity**
No data available.
- c. Possibility of hazardous reactions**
No data available.
- d. Conditions to avoid**
No data available.
- e. Incompatible materials**
Strong oxidizing agents
- f. Hazardous decomposition products**
None under normal use

SECTION 11: Toxicological information

- a. Information on likely routes of exposure**
 - Inhalation**
May be harmful by inhalation.
 - Ingestion**
May be harmful if swallowed.
 - Skin**
May cause skin irritation in susceptible persons.
 - Eyes**
May cause eye irritation with susceptible persons.
- b. 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

No data available.

f. Other adverse effects

No data available.

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:	IMDG: -	IATA: -
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 Act

No data available.

b. Chemical safety assessment

No data available.

SECTION 16: Other information

Further information

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End of Safety Data Sheet