

SAFETY DATA SHEET

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

- a. Product Name : QUANTOM™ Total Cell Staining Dye
- Product Number : Q13101, Q13201
- 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
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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
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

Component:	DMSO
Synonyms:	Methyl sulfoxide
Formula:	C ₂ H ₆ OS
CAS-No.:	67-68-5
Weight%:	90-100%
Component:	QUANTOM™ Cell Staining Dye
Synonyms:	-
Formula:	-
CAS-No.:	None
Weight%:	< 1%
Component:	Sodium azide
Synonyms:	Hydrazoic acid sodium salt
Formula:	NaN ₃
CAS-No.:	26628-22-8
Weight%:	< 0.1%

SECTION 4: First aid measures

- a. **In case of eye contact**
Rinse thoroughly with plenty of water for at least 15 minutes and assure adequate flushing by separating the eyelids with fingers. Consult a physician.
- b. **In case of skin contact**
Wash off with soap and plenty of water. Consult a physician.
- c. **If inhaled**
If breathed in, move person into the fresh air. If not breathing, give artificial respiration. Consult a physician.
- d. **If swallowed**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- e. **General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance.
- f. **Most important symptoms and effects, both acute and delayed**
No data available.
- g. **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**
Carbon oxides, Sulphur oxides.
- c. **Special protective actions for fire-fighters**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

d. Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

a. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

b. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

c. Methods and materials for containment and cleaning up

Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

d. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

a. Precautions for safe handling

Potentially harmful. Avoid prolonged or repeated exposure. Avoid dust formation. Avoid breathing vapors, mist or gas.

b. Conditions for safe storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect material from long-term exposure to light.

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

Handle in accordance with general industrial hygiene and safety practice. Wash hands before breaks and at the end of a workday.

c. Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching 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.

Body protection

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

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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
b. Odor	No data available
c. Odor Threshold	No data available
d. pH	No data available
e. Melting point/freezing point	16 - 19° C
f. Initial boiling point and boiling range	189 °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. Water Solubility	Moderate
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 recommended storage conditions.
- b. **Reactivity**
No data available.
- c. **Possibility of hazardous reactions**
No data available.
- d. **Conditions to avoid**
Heat, flames and sparks.

e. Incompatible materials

Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents.

f. Hazardous decomposition products

Hazardous decomposition products are formed under fire conditions. - Carbon oxides.

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.

Infection

May be harmful if injected.

Mutagenic effects

Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.

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

Not listed by NTP, IARC or OSHA.

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. Endocrine disrupting properties**
No data available.
- g. Other adverse effects**
No data available.

SECTION 13: Disposal considerations

- a. Disposal methods**
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. 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		

Maritime transport in bulk according to IMO instruments		IMDG: -	
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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

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