

SAFETY DATA SHEET

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

- a. Product Name : Fluorescein Diacetate (FDA) Stain
- Product Number : F23211
- 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
Warning

Hazard statements
H227 – Combustible liquid
Precautionary statements

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P370 + 378 – In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 – Store in a well-ventilated place.

P501 – Dispose of contents/container to an approved waste disposal plant.

Precautionary statements
Not hazardous

c. Other hazard which do not result in classification

None

SECTION 3: Composition/ Information on ingredients

3b. Mixtures

Component:	Dimethyl sulfoxide
Synonyms:	Methyl sulfoxide
Formula:	C ₂ H ₆ OS
CAS-No.:	67-68-5
Weight%:	60-100%
Component:	Fluorescein diacetate
Synonyms:	3,6-Diacetoxyfluoran
Formula:	C ₂₄ H ₁₆ O ₇
CAS-No.:	596-09-8
Weight%:	< 1%

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

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. Indication of any immediate medical attention and special treatment needed

The most important known symptoms and effects are described in the labeling (see section 2.b) and/or in section 11

SECTION 5: Firefighting measures

a. Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

b. Specific hazards arising from the chemical

Carbon oxides, Sulphur oxides.

c. Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

d. Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

a. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). 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

Avoid inhalation of vapor or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.

b. Conditions for safe storage

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place.

Store under inert gas. hygroscopic

c. Specific end use(s)

Apart from the uses mentioned in section 1.2 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.

c. Personal protective equipment

Hand 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.

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

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 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

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 Colour: colourless
b. Odor	No data available
c. Odor Threshold	No data available
d. pH	No data available
e. Melting point/freezing point	Melting point/range: 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. 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**
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

Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

a. Information on likely routes of exposure

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

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: PV6210000

Effects due to ingestion may include: Nausea, Fatigue, Headache

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

No data available

Remarks: Hydrolyses readily.

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. Contact a licensed professional waste disposal service to dispose of this material.

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

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