

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name Fluorescence Signal Enhancer 1
Product Number F23213

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

Manufacturer

Aligned Genetics, Inc.
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Supplier

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Emergency telephone number +82 31 478 4185

For research use only. Not intended for human or animal diagnostic or therapeutic use.

2. HAZARDS IDENTIFICATION

[GHS classification]

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

Labeling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word Warning

Hazard statements

H302 – Harmful if swallowed

H312 – Harmful in contact with skin

H332 – Harmful if inhaled

Precautionary statements

P261 – Avoid breathing dust/fumes/gas/mist/vapors/spray.

P264 – Wash skin thoroughly after handling.

P270 – Do not eat, drink, or smoke when using this product.

P271 – Use only outdoors or in a well-ventilated area.

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

P301 + P312 + 330 – IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P312 + P352 – IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell.

P304 + P312 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P362 + P364 – Take off contaminated clothing and wash it before use.

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

Other hazards

None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Component	Synonyms	Formula	CAS No.	Weight %
Sodium orthovanadate	Trisodium tetraoxovanadate	Na ₃ O ₄ V	13721-39-6	< 3%

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

4. FIRST AID MEASURES

Description of first aid measures

In case of eye contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
In case of skin contact	Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep the patient warm. Seek immediate medical advice.
After swallowing	Seek medical treatment.
Indication of any immediate medical attention and special treatment needed	No data available

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use fire-fighting measures that suit the surrounding fire.

Special hazards arising from the substances or mixture

Sodium oxide, Metal oxide fume

Advice of fire-fighters

Protective equipment

Wear self-contained respirators. Wear a fully protective impervious suit.

Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions

Do not allow material to be released to the environment without proper governmental permits.

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

For safe handling, see section 7.

For personal protection equipment, see section 8.

For disposal, see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Keep the container tightly sealed.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Refrigerate

Protect from heat and water.

Specific end use(s)

No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of a workday.

Maintain an ergonomically appropriate working environment.

Remove all soiled and contaminated clothing immediately.

Personal protective equipment

Respiratory protection	Use suitable respirator when high concentrations are present
Hand protection	Impervious gloves. Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material but also on quality.
Eye protection	Tightly fitting safety goggles
Skin and Body protection	Protective work clothing
Control of Environmental exposure	No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Form: liquid Colour: colorless
Odor	No data available
Odor Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	100°C
Flashpoint	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available

Specific Gravity/Relative density	No data available
Solubility	Fully miscible
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Dynamic viscosity	No data available

Other safety information

No data available

10. STABILITY AND REACTIVITY

Stability

Stability	Stable under recommended storage conditions.
Reactivity	No data available

Possibility of hazardous reactions

Water reacts violently with alkali metals. Reacts with alkaline earth metals.

Water reacts with many metals to give hydrogen, often violently. Water is also incompatible with many reactive organic and inorganic chemicals.

Conditions to avoid

No data available

Incompatible materials

Heat

Hazardous decomposition products

Sodium oxide, Metal oxide fume

11. TOXICOLOGICAL INFORMATION

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

The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for components in this product.

Carcinogenicity

No data available

Reproductive toxicity

The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for components in this product.

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May cause skin irritation
Eyes	May cause eye irritation

Additional Information

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

The product is not subject to classification according to internally approved calculation methods for preparations.

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

Not applicable

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Recommendation Consult state, local or national regulation to ensure proper disposal.

Contaminated packaging

Recommendation Disposal must be made according to official regulations.
Recommended cleansing agents Water, if necessary, together with cleansing agents.

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		

15. REGULATORY INFORMATION

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

Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

Chemical safety assessment

For this product a chemical safety assessment was not carried out

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