

MATERIAL SAFETY DATA SHEET

SECTION 1 - Product and Company Information

Product name: GFP (*Aequorea victoria*) Recombinant Protein
Company: Abnova (Taiwan) Corporation
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SECTION 2 - Hazards Identification

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Other hazards

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 Ingredient

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

SECTION 4 - First aid measures

Description of first aid measures

General advice

Low hazard via all routes of entry.

Following inhalation

Move person into fresh air. If not breathing, give artificial respiration.

Following skin contact

Wash off with soap and plenty of water.

Following eye contact

Rinse with water.

Following ingestion

Contact medical aid in case of ingestion of large amounts (liters). Never give anything by mouth to an unconscious person.

First Aid

Wash off contact area with water.

SECTION 5 - Fire fighting measures

Extinguishing media

Suitable extinguishing media: Water Foam Carbon dioxide (CO₂) Dry power.

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

Special hazards

Hydrogen chloride gas, Sodium oxides, Not combustible.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further Information

Suppress (knock down) gases/vapors/mists with a water spray jet.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapors, mists or gases.

Evacuate the danger area, observe emergency procedures, and consult an expert.

Environmental precautions

Do not allow product to enter the drain.

Methods and materials for containment and cleaning up

Dilute with a large quantity of water.

Keep in suitable closed containers for disposal.

Clean up the affected area.

Reference to other sections

For disposal see section 13.

SECTION 7 - Handling and storage

Precautions for safe handling

Avoid contact with eyes. Wash thoroughly after handling

Conditions for safe storage, including any incompatibilities

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

Store at ambient or lower temperature.

Protect against physical damage.

Specific end use

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8 - Exposure Controls**Control parameters**

Ingredients with workplace control parameters.

Contains no substances with occupational exposure limit values.

Exposure controlsAppropriate engineering controls

Contains no substances with occupational exposure limit values. Maintain general industrial hygiene practices when using this product.

Personal protective equipment

Eye protection: Use eye protection goggles. 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. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands after handling.

Protective impervious clothing should be selected specifically for the working place, depending on the concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Environmental exposure controls

Do not allow product to enter the drain.

SECTION 9 - Physical and chemical properties**Information on basic physical and chemical properties**

(a) Appearance

Colorless and clear liquid

(b) Odor

Odorless

(c) Odor threshold

No data available

(d) pH

No data available

(e) Melting point / freezing point

No data available

- (f) Boiling point
No data available
- (g) Flash point
No data available
- (h) Evaporation rate
No data available
- (i) Flammability (solid, gas)
No data available
- (j) Upper/lower flammability or explosive limits
No data available
- (k) Vapor pressure
No data available
- (l) Vapor density
No data available
- (m) Relative density
No data available
- (n) Solubility
No data available
- (o) Partition coefficient n-octanol/water
No data available
- (p) Auto-ignition temperature
No data available
- (q) Decomposition temperature
No data available
- (r) Viscosity
No data available
- (s) Explosive properties
Not classified as explosive
- (t) Oxidizing properties
No data available

SECTION 10 - Stability and reactivity

Reactivity

No hazardous reactivity is known for this product or its ingredients.

Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions

No hazardous reactions when handled and stored according to provisions.

Conditions to avoid

No data available

Incompatible materials

No data available

Hazardous decomposition products

Ambient fire may liberate hazardous vapors.

SECTION 11 - Toxicological information**Information on toxicological effects**

(a) Acute oral and inhalation toxicity

No data available

(b) Skin corrosion/Irritation

No data available

(c) Serious eye damage/irritation

No data available

(d) Respiratory or skin sensitization

No data available

(e) Germ cell mutagenicity

No data available

(f) Carcinogenicity

No data available

(g) Reproductive toxicity

No data available

(h) Specific target organ toxicity (single exposure)

No data available

(i) Specific target organ toxicity (repeated exposure)

No data available

(j) Aspiration hazard

No data available

SECTION 12 - Ecological information**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulation potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other hazardous effects

No data available

SECTION - 13 Disposal Considerations**Waste treatment methods**

Product / Packaging disposal

Waste material must be disposed of in accordance with the national and local regulations.

Leave chemicals in original containers.

SECTION 14 - Transport information**Land Transport (ADR/RID)**

UN number: Not applicable

Proper shipping name: Non dangerous goods

Class: Not applicable

Packing group: Not applicable

Environmentally hazardous: No

Special precautions for user: No

Tunnel restriction code: Not applicable

Inland waterway transport (ADN): Not applicable

Air Transport (IATA)

UN number: Not applicable

Proper shipping name: Non dangerous goods

Class: Not applicable

Packing group: Not applicable

Environmentally hazardous: No

Special precautions for user: No

Sea Transport (IMDG)

UN number: Not applicable

Proper shipping name: Non dangerous goods

Class: Not applicable

Packing group: Not applicable

Environmentally hazardous: No

Special precautions for user: No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15 - Regulatory information

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

This safety data sheet is in accordance with the Regulation (EC) No. 1272/2008.

Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16 - Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Abnova shall not be held liable for any damage resulting from handling or from contact with the above product.