



2.2 Label elements



GHS Signal Word: Warning

GHS Hazard Phrases:

H302: Harmful if swallowed.
H319: Causes serious eye irritation.
H400: Very toxic to aquatic life.

GHS Precaution Phrases:

P264: Wash hands thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330: Rinse mouth.
P337+313: If eye irritation persists, get medical advice/attention.
P391: Collect spillage.

2.3 Adverse Human Health

Effects and Symptoms:

Harmful if swallowed.
Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation or skin absorption.
May cause skin or respiratory system irritation.
Very toxic to aquatic life.

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

SECTION 3: Composition/information on ingredients

3.1 Substance

This product is a pure compound.
Natural product; extracted from plant

Chemical Name Beta-Zearaleno

Purity (By weight) <100%

CAS: 71030-11-0
RTECS : DM2570000

GHS Classification

Acute Tox.(O) 4: H302
Eye Damage 2A: H319
Aquatic (A) 1: H400

3.1 Mixture:

Not mixture. This product is a pure compound.

4. First Aid Measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

No data available

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Evacuate personnel to safe areas.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal.



7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Avoid exposure - obtain special instructions before use.
Provide appropriate exhaust ventilation at places where dust is formed.
Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities.

Store in cool place.
Keep container tightly closed in a dry and well-ventilated place.
The product is light sensitive.

7.3 Specific end uses

Specific uses: For research

8. Exposure Controls/Personal Protection

8.1 Exposure parameters

No information available

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses: use equipment for eye protection tested and approved under appropriate government standards.

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

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of intended use by our users. It should remain under the responsibility of the users to select the protective equipment according to the nature of the intended use(s)

Body Protection

Complete suit protecting against chemicals, 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 particle respirator type N100 (US) or type P3 (EN 143) 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.



9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	Solid
Solubility	2% in methanol
Further information which is relevant to classification	None available

10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions. May be light-sensitive.
Precautionary Statements:	None under normal processing.
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong reducers and oxidizers
Hazardous decomposition products:	Carbon monoxide (CO). Carbon dioxide (CO ₂).

11. Toxicological information

11.1 Information on toxicological effects.

Quantitative toxicity data:

No data available.

IARC:

This substance is not identified as human carcinogen.

This substance is not known to be a Mutagen, Teratogen, and/or Genotoxic.

Additional information:

May be eye-irritant.

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

12. Ecological Information

Toxicity

Aquatic toxicity:	Avoid release into the environment No further relevant information available. Runoff from fire control or dilution water may cause pollution.
Persistence and degradability:	No further relevant information available.

Behaviour in environmental systems:

Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.

Results of PBT and vPvB assessment

PBT:	This substance is not considered to be persistent, bioaccumulating or toxic.
vPvB:	This substance is not considered to be very persistent, nor very bioaccumulating.

Other adverse effects

No further relevant information available.



No information available, as PBT/vPvB assessment has not carried out.

13. Disposal Considerations

13.1 Waste treatment methods

Waste from residues / unused products

Obey local / national laws and regulations.

Contaminated packaging

Dispose of as unused product

14. Transport information

14.1 UN number UN3077

US DOT ; ADR/RID; IATA

Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. (.beta.-Zearalenol)

Hazard Class: 9 CLASS 9

UN/NA Number: **UN3077** Packing Group: III

Additional Transport Information:

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.

Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

15. Regulatory information

EPA SARA LISTS

This product is NOT listed in any of the following: S. 302 (EHS), S. 304 RQ, S. 313 (TRI), CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16: Other information

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

*****End of SDS*****

