

## Brassinolide

**Cat#: orb594478 (MSDS)**

### 1. Chemical Product and company Identification

Product Name: Brassinolide

### 2. Composition, Information on Ingredients

CAS Number: 72962-43-7

Mol. Formula:  $C_{28}H_{48}O_6$

Mol. Weight :480.686

Identified uses: Laboratory chemicals, for R&D

Storage: Room temperature for transportation, 2~8°C for long term storage, protected from strong light, keep package airtight when not in use.

### 3. Hazard's identification

Classification of the substance or mixture

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

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

Label elements

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Other hazards -

The chemical, Physical and toxicological properties of this product have not been thoroughly investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

### 4. First-aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor.

In case of skin contact

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

In case of eye contact

Flush eyes with water as a precaution. Consult a doctor.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor.  
Indication of any immediate medical attention and special treatment needed No data available  
Show this safety data sheet to the doctor in attendance.  
Immediate medical attention is required.

#### 5. Fire-fighting measures

##### Conditions of flammability

Not flammable or combustible.

##### Suitable extinguishing media

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

##### Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

##### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

#### 6. Accidental release measures

##### Personal precautions

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

##### Environmental precautions

Do not let product enter drains.

##### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 7. Handling and storage

##### Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

##### Storage:

Store in a well closed container. Protected from air and light, put into refrigerate or freeze for long term storage.

##### Specific end uses

Use in a laboratory fume hood where possible. Refer to employer is COSHH risk assessment.

## 8. Exposure controls, personal protection

Contains no substances with occupational exposure limit values.

Personal protective equipment

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).

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.

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and 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.

Hygiene measures

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

## 9. Physical and chemical properties

Physical Description: Off-white powder

Property Values

pH No information available

Melting point/freezing point 200-204°C

Boiling point 633.7°C at 760 mmHg

Flash point No information available

Density 1.141 g/cm<sup>3</sup>

Evaporation rate No information available

Upper flammability limits No information available

Lower flammability limits No information available

Vapor pressure No information available

Vapor density No information available

Specific gravity No information available

Water solubility No information available  
Solubility in other solvents No information available  
Partition coefficient No information available  
Autoignition temperature No information available  
Kinematic viscosity No information available  
Decomposition temperature No information available  
Explosive properties No information available  
Oxidizing properties No information available

## 10. Stability and reactivity

### Chemical stability

Stable under recommended storage conditions.  
Possibility of hazardous reactions no data available  
Conditions to avoid no data available  
Materials to avoid  
Strong oxidizing agents  
Hazardous decomposition products  
Hazardous decomposition products formed under fire conditions. - Carbon oxides  
Other decomposition products - no data available

## 11. Toxicological information

### Acute toxicity

Oral LD50: no data available  
Inhalation LC50: no data available  
Dermal LD50: no data available  
Other information on acute toxicity: no data available  
Serious eye damage/eye irritation no data available  
Respiratory or skin sensitisation 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.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity no data available

Teratogenicity no data available

Specific target organ toxicity - single exposure (Globally Harmonized System) no data available  
Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available  
Aspiration hazards no data available

#### Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes May be caused eye irritation.

Synergistic effects no data available

#### Additional Information

RTECS: Not available

### 12. Ecological information

Toxicity no data available

Persistence and degradability no data available

Bioaccumulative potential no data available

Mobility in soil no data available

PBT and vPvB assessment no data available

Other adverse effects no data available

### 13. Disposal considerations

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

### 14. Transport information

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

#### UN number

Does not meet the criteria for classification as hazardous for transport.

#### UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### Packaging group

Does not meet the criteria for classification as hazardous for transport.

#### Environmental hazards

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

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

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