

Oridonin

Section 1. Product and supplier information

1.1. Identification

Product name: Oridonin

Product catalog number: F3240-10, F3240-50

CAS#: 28957-04-2

1.2. Recommended use and restrictions on use

Research use only. Not for clinical or human use.

1.3. Supplier

Ubiquitin-Proteasome Biotechnologies (UBPBio), LLC

17217 Waterview Pkwy

Dallas, TX 75252

USA

Tel: 1-800-218-0982

Fax: 1-800-682-6801

Email: info@ubpbio.com

Web: www.ubpbio.com

1.4. Emergency telephone number

Emergency number: 1-800-218-0982

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

H302 Acute toxicity, Oral (Category 4),

H400 Acute aquatic toxicity (Category 1)

H410 Chronic aquatic toxicity (Category 1)

2.2. GHS Label elements, including precautionary statements



GHS Signal Word: Danger

GHS Hazard Phrases:

H302: Harmful if swallowed.

H410: Very toxic to aquatic life with long lasting effects.

GHS Precaution Phrases:

P264: Wash hands thoroughly after handling.

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

Oridonin**GHS Response Phrases:**

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses.

P312: Call a POISON CENTER/doctor if not feeling well.

P330: Rinse mouth.

P332+313: If skin irritation occurs, get medical advice/attention.

P337+313: If eye irritation persists, get medical advice/attention.

P391 Collect spillage.

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

SECTION 3: Composition/Information on ingredients**3.1. Substances**

Product Name: Oridonin

Formula: $C_{20}H_{28}O_6$

Molecular weight: 364.43 g/mol

SECTION 4: First-aid measures**4.1. Description of first aid measures**

First-aid measures after inhalation:	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
First-aid measures after skin contact:	Wash skin with plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur.
First-aid measures after eye contact:	Hold eyelids apart and flush eyes with plenty of water. Have eyes examined and tested by medical professional.
First-aid measures after ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION 5: Fire-fighting measures**5.1. Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard: No data available.

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment.

Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Oridonin**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Avoid breathing dust and provide adequate ventilation.

As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Precautions for safe handling: Ensure good ventilation. Wear personal protective equipment. Avoid breathing dust.

Hygiene measures: Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a well-ventilated place. Keep at -20 or -80 °C for long-term storage.

7.3. Specific end uses

Use in a laboratory fume hood where possible.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Contains no substances with occupational exposure limit values.

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: Solid

Odor: No data available

pH: No data available

Melting point: Not applicable

Freezing point: No data available

Boiling point: No data available

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Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): Not applicable.
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: No data available
Solubility: > 20 mg/ml in DMSO
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat and moisture.

10.5 Incompatible materials

Strong acids/alkalis, strong oxidizing/reducing agents.

10.6 Hazardous decomposition products

Under fire conditions, may decompose and emit toxic fumes.

Other decomposition products - no data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

No data available.

Skin corrosion/irritation

Classification criteria are not met based on available data

Serious eye damage/irritation

Classification criteria are not met based on available data

Respiratory or skin sensitization

Classification criteria are not met based on available data

Germ cell mutagenicity

Classification criteria are not met based on available data

Carcinogenicity

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IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as an anticipated or confirmed carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

Reproductive toxicity

Classification criteria are not met based on available data

Specific target organ toxicity - single exposure

Classification criteria are not met based on available data

Specific target organ toxicity - repeated exposure

Classification criteria are not met based on available data

Aspiration hazard

Classification criteria are not met based on available data

Symptoms / Routes of exposure

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion: There may be irritation of the throat.

Skin: There may be mild irritation at the site of contact.

Eyes: There may be irritation and redness.

Delayed / Immediate Effects: No known symptoms.

Additional Information

Exposure may cause irritation of eyes, mucous membranes, upper respiratory tract and skin.

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

SECTION 12: Ecological information**12.1. Toxicity**

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

No data available on mobility of the substance.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

Oridonin**13.1. Disposal methods**

Waste treatment methods: Dispose substance in accordance with prevailing country, federal, state and local regulations.

SECTION 14: Transport information

Department of Transportation (DOT): Not regulated

TDG Transport by sea: Not regulated

Air transport: Not regulated

SECTION 15: Regulatory information**SARA 302 components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 hazards:

No SARA Hazards.

Massachusetts Right to Know components:

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know components:

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know components:

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other information**Other Information about this product**

Not available

DISCLAIMER:

This above information is believed to be correct and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty with respect to such information, and we assume no liability resulting from its use. Users should make independent decisions regarding the suitability of the information for their particular purposes.