

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY**

**1.1 Product identifiers**

Product Name : Wortmannin  
Product Number : AUR11243  
Manufacturer : Aurora Medbiochem  
Address : 938 South Andreasen Drive, Suite E  
Escondido, CA 92029 USA

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

Identified uses : Laboratory chemicals, Manufacture of substances

**1.3 Emergency telephone**

Emergency Phone # : +1-760-738-1508  
Fax Phone # : +1-760-738-1530

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Product/ Chemical Name	Description	Safety Information	Concentration
Wortmannin	White to off-white solid	See below	100%

**SECTION 3: HAZARDS IDENTIFICATION**

Components	CAS Number	EC-No.	Molecular Weight	Chemical Formula
WORTMANNIN	19545-26-7	--	428.4	C <sub>23</sub> H <sub>24</sub> O <sub>8</sub>

**Emergency Overview:**

**OSHA Hazards:** Delayed target organ effects, Highly toxic by inhalation, Highly toxic by ingestion, Highly toxic by skin absorption

**Target Organ:** Heart

**GHS Classification:** Acute toxicity, Oral (Category 1)

Acute toxicity, Inhalation (Category 1)

Acute toxicity, Dermal (Category 2)

**GHS Label elements, including precautionary statements**

**Pictogram:**



**Signal word:**

Danger

**GHS Hazard statement(s):**

H300+H310 Fatal if swallowed or in contact with skin.

H330 Fatal if inhaled

**GHS Precautionary statement(s):**

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing.

P284 Wear respiratory protection.

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P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P310 Immediately call a POISON CENTER or doctor/physician

**HMIS Classification**

**Health hazard:** 4

**Flammability:** 0

**Physical hazards:** 1

**NFPA Rating**

**Health Hazard:** 4

**Fire:** 0

**Reactivity Hazard:** 1

**Potential Health Effects**

**Inhalation:** May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed

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**SECTION 4: FIRST AID MEASURES**

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**Description of first-aid measures**

**General advice**

Show this material safety data sheet to the doctor in attendance.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact:** Wash off with soap and plenty of water.

**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.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 11)

**Indication of any immediate medical attention and special treatment needed** No data available.

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**SECTION 5: FIREFIGHTING MEASURE**

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Condition of flammability: Not flammable or combustible.

**Extinguishing media**

**Suitable extinguishing media**

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

**Unsuitable extinguishing media**

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

**Special hazards arising from the substance or mixture**

Hazardous combustion products formed under fire conditions— carbon oxides, nitrogen oxides.

**Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**Further information**

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Personal precautions:** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.  
Evacuate the danger area, observe emergency procedures, consult an expert.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal

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## SECTION 7: HANDLING AND STORAGE

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### Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces, and sources of ignition. precautionary measures against static discharge.

### Conditions for safe storage, including any incompatibilities

#### Storage conditions

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

**Recommended storage temperature :** -20 °C. Protect from air and light

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## SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

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Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection:

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. 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:

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

#### Skin and body protection:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures:** General industrial hygiene practice.

#### Control of environmental exposure

Do not let product enter drains.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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Property	WORTMANNIN
<b>Appearance:</b>	White to off white solid
<b>pH:</b>	No data available
<b>Water Solubility:</b>	No data available
<b>Other Solubility:</b>	DMSO (50 mM), EtOH (5 mM)
<b>Boiling Point (°C):</b>	No data available
<b>Melting Point (°C):</b>	No data available
<b>Flash Point (°C):</b>	No data available
<b>Ignition Temperature (°C):</b>	No data available
<b>Density:</b>	No data available

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**SECTION 10: STABILITY AND REACTIVITY**

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Property	WORTMANNIN
<b>Chemical stability</b>	Stable under recommended storage conditions
<b>Conditions to avoid:</b>	Light, moisture
<b>Materials to avoid:</b>	strong oxidizing agents, strong bases
<b>Hazardous decomposition products:</b>	Carbon oxides

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**WORTMANNIN**

**Acute toxicity:** LD50 Oral – rat – 4 mg/kg

LD50 Intraperitoneal – mouse – 18 mg/kg

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** 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:** Resulted in impaired fertility in animal studies. Developmental studies in rats and rabbits resulted in embryo/fetal death only at maternally toxic dosages, but no direct toxicity to the embryo/fetus.

**Teratogenicity:** no data available

**Aspiration hazard:** no data available

Potential Health Effects

**Inhalation:** Very toxic if inhaled. May cause respiratory tract irritation.

**Skin:** Very toxic if absorbed through skin. Causes skin irritation.

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**Eyes:** Causes eye irritation.  
**Ingestion:** Very toxic if swallowed.  
**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
**Synergistic effects:** no data available  
**Additional information:** RTECS: not available

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## **SECTION 12: ECOLOGICAL INFORMATION**

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### **WORTMANNIN:**

**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

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## **SECTION 13: DISPOSAL CONSIDERATION**

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**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging:** Dispose of as unused product.

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## **SECTION 14: TRANSPORT INFORMATION**

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**DOT (US):** UN-Number: 3462, Class: 6.1, Packing group: I; Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Wortmannin); Marine pollutant: No; Poison Inhalation Hazard: No  
**IMDG:** UN-Number: 3462, Class: 6.1, Packing group: I; EMS-No. F-A, S-A; Proper shipping name: TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Wortmannin); Marine pollutant: No  
**IATA:** UN-Number: 3462, Class: 6.1, Packing group: I; Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Wortmannin)

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## **SECTION 15: REGULATORY INFORMATION**

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### **WORTMANNIN**

**OSHA Hazards:** Delayed target organ effects, Highly toxic by inhalation, Highly toxic by ingestion, Highly toxic by skin absorption

**SARA 302 Components: SARA 302:** No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

**SARA 311/312 Hazards:** Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

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**Pennsylvania Right To Know Components:** WORTMANNIN, CAS-No. 19545-26-7

**New Jersey Right To Know Components:** WORTMANNIN, CAS-No. 19545-26-7

**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

**EU regulations**

<b>Component</b>	<b>Risk Phrases</b>	<b>Safety Phrases</b>
WORTMANNIN	R26/27/28	S36/37/39, S45

**SECTION 16: OTHER INFORMATION**

**DISCLAIMER:**

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 is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aurora Medbiochem Co. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.