

# Safety Data Sheet

## Safety Data Sheet - LC Laboratories Revision Date: July 1, 2019

### SECTION 1. IDENTIFICATION:

Trade name: Okadaic Acid, Free Acid  
Product Number: [O-2220](#)  
Manufacturer/Supplier:  
LC Laboratories  
165 New Boston Street  
Woburn, MA 01801 USA  
+1-781-937-0777 Fax: +1-781-938-5420

---

### SECTION 2. HAZARD(S) IDENTIFICATION:

Hazard Description: Toxic; Irritant  
Substance Class Identifier: Tumorigen; Mutagen; Natural Product; Human Data  
Toxic if swallowed, inhaled, or absorbed through the skin  
Ingestion will result in diarrhea, vomiting, abdominal pain and cramping  
Irritating to skin and respiratory system; may cause eye irritation  
Signal Word: Danger

#### GHS Hazard Statements:

H302+312+332 - Harmful if swallowed, in contact with skin or if inhaled

#### GHS Precautionary Statements:

P2562 - Do not get in eyes, on skin or on clothing  
WARNING: For Laboratory Research Use Only



---

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: ( $\alpha R, 2S, 5R, 6R, 8S$ )- $\alpha, 5$ -dihydroxy- $\alpha, 10$ -dimethyl-8-[(1*R*,2*E*)-1-methyl-3-[(2*R*,4'*aR*,5*R*,6'*S*,8'*R*,8'*aS*)-octahydro-8'-hydroxy-6'-[(1*S*,3*S*)-1-hydroxy-3-[(2*S*,3*R*,6*S*)-3-methyl-1,7-dioxaspiro[5.5]undec-2-yl]butyl]-7'-methylenespiro[furan-2(3*H*),2'(3'*H*)-pyrano[3,2-*b*]pyran]-5-yl]-2-propen-1-yl]-1,7-dioxaspiro[5.5]undec-10-ene-2-propanoic acid  
Synonyms: 9,10-deepithio-9,10-didehydro-acanthifolicin, Halochondrine A  
Hazardous Ingredient: Okadaic Acid  
CAS Registry Number: 78111-17-8  
Molecular Weight: 805.00  
Molecular Formula: C<sub>44</sub>H<sub>68</sub>O<sub>13</sub>

---

### SECTION 4. FIRST-AID MEASURES:

After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration

After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a physician

After eye contact: flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician

After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician

---

#### **SECTION 5. FIRE-FIGHTING MEASURES:**

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder or foam

Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Unusual fire hazard: may emit toxic fumes under fire conditions

---

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES:**

Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective clothing and heavy rubber gloves

Measures for cleaning/collecting: absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according to Section 13

---

#### **SECTION 7. HANDLING AND STORAGE:**

Information for safe handling: avoid contact with skin, eyes and clothing; material may be an irritant

Storage: store solid and solutions at -20 °C

---

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

Personal protective equipment as follows:

Breathing equipment: NIOSH/MSHA-approved respirator

Protection of hands: handle with Nitrile rubber gloves with minimum thickness of 0.11 mm (4.3 mil). This recommendation should not be interpreted as offering an approval for any specific use conditions. Please review this recommendation with a safety officer to evaluate if it is appropriate for the anticipated use.

Eye protection: chemical safety goggles

---

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:**

Form: crystalline solid or clear, colorless film

Color: white

Odor: none

Melting point/Melting range: not determined  
Danger of explosion: none  
Solubility in / Miscibility with water: not determined  
Solvent content: none  
Organic solvents: soluble in DMSO, methanol, or ethanol

---

**SECTION 10. STABILITY AND REACTIVITY:**

Stability: avoid acids and bases  
Thermal decomposition / conditions to be avoided: protect from light and heat  
Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide and carbon dioxide

---

**SECTION 11. TOXICOLOGICAL INFORMATION:**

RTECS #: AA8227800  
Acute toxicity: intraperitoneal toxicity (LD50): 192 µg/kg (mouse)  
On the skin: causes skin irritation; harmful if absorbed through the skin  
On the eye: causes eye irritation  
Inhalation: causes respiratory tract irritation; harmful if inhaled  
Ingestion: harmful if swallowed

---

**SECTION 12. ECOLOGICAL INFORMATION:**

General notes: no data available  
Treat as potentially toxic if released into the environment

---

**SECTION 13. DISPOSAL CONSIDERATIONS:**

Dispose of in accordance with prevailing country, federal, state and local regulations

---

**SECTION 14. TRANSPORT INFORMATION:**

UN number: 3462  
DOT: Toxins, extracted from living sources, solid, n.o.s. (Okadaic acid), Class: 6.1, Packing group: I  
IMDG: Toxins, extracted from living sources, solid, n.o.s. (Okadaic acid), Class: 6.1, Packing group: I  
IATA: Toxins, extracted from living sources, solid, n.o.s. (Okadaic acid), Class: 6.1, Packing group: I

---

**SECTION 15. REGULATORY INFORMATION:**

Code letter and hazard designation of product:  
T: Toxic, Xi: Irritant  
EU Risk And Safety phrases:  
S22: Do not breathe dust

S24/25: Avoid contact with skin and eyes

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

S46: If swallowed, seek medical advice immediately and show this container or label

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed

R37/38: Irritating to respiratory system and skin

---

**SECTION 16. OTHER INFORMATION:**

The above information is believed to be correct based on our present knowledge but does not purport to be complete. For research use only by trained personnel. The burden of safe use of this material rests entirely with the user. LC Laboratories disclaims all liability

Reviewed: July 1, 2019