

Safety Data Sheet (SDS) According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

## **SECTION 1. Identification**

Product identifier

Product No 5934

Product name Okadaic Acid

UN number UN3462

Recommended use of the chemical and restrictions on use

**Identified uses** For Research Use Only. Not for Use in Diagnostic Procedures.

Manufacturer, importer, supplier

Manufacturer address Cell Signaling Technology, Inc.

3 Trask Lane Danvers, MA 01923 United States

TEL: +1 978 867 2300 FAX: +1 978 867 2400

Website www.cellsignal.com
Email address support@cellsignal.com

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

## SECTION 2. Hazard(s) identification

#### Classification

This substance/mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute inhalation toxicity	Category 3
Skin corrosion/irritation	Category 2

### GHS Label elements, including precautionary statements



Signal Word

### Danger

#### Hazard statement(s)

Toxic if swallowed.

Toxic in contact with skin.

Toxic if inhaled.

Causes skin irritation.

#### **Precautionary Statement(s)**

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Wear protective gloves and protective clothing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

If skin irritation occurs: Get medical advice/attention

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

Call a POISON CENTER or doctor/physician

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

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

#### **Supplementary Hazard Information**

#### Hazards not otherwise classified (HNOC)

Not applicable.

## **SECTION 3. Composition/information on ingredients**

Formula C44H68O13 Molecular Weight 805.00 g/mol

Synonyms Okadaic acid;

Acanthifolicin, 9,10-deepithio-9,10-didehydro-

UNII-1W21G5Q4N2

Chemical name	CAS No	Weight-%
9,10-Deepithio-9,10-didehydroacanthifolicin	78111-17-8	100

## SECTION 4. First-aid measures

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsing.

Skin contact Immediate medical attention is required. Wash off immediately with plenty of water for at

least 15 minutes. Remove and wash contaminated clothing before re-use.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Immediate medical attention is required. If not breathing, give artificial respiration.

Ingestion Immediate medical attention is required. Never give anything by mouth to an unconscious

person. Clean mouth with water. Drink plenty of water. Do not induce vomiting without

medical advice. Consult a physician.

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

Nausea. Vomiting. Abdominal pain. Diarrhea. Headache.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### Advice for emergency responders

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance. If symptoms persist, call a physician.

Protection of first-aiders

Use personal protective equipment Avoid contact with skin, eyes and clothing

### **SECTION 5. Fire-fighting measures**

## **Extinguishing media**

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment

#### Specific hazards arising from the chemical

No information available.

#### **Explosion Data**

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6. Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Use personal protective equipment. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

Other information No information available.

### **Environmental precautions**

Do not flush into surface water or sanitary sewer system.

## Methods and material for containment and cleaning up

Methods for containment Methods for cleaning up Prevent further leakage or spillage if safe to do so.

Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

## **SECTION 7. Handling and storage**

### Precautions for safe handling

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment.

### Conditions for safe storage, including any incompatibilities

Technical measures/Storage

Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled

containers.

Packaging material

No information available

Incompatible products

None known based on information supplied

## SECTION 8. Exposure controls/personal protection

#### Control parameters

conditions

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

#### Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection Skin and body protection Tightly fitting safety goggles Wear protective gloves/clothing.

Respiratory protection Hygiene measures

In case of inadequate ventilation wear respiratory protection.

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding

stuffs.

## **SECTION 9. Physical and chemical properties**

## Information on basic physical and chemical properties

Physical state

**Appearance** Crystalline Powder

Color White

Odor No information available **Odor Threshold** No information available

**Property** Values

No information available 164-175 °C

Melting point/freezing point

Boiling point or initial boiling point No information available

and boiling range

No information available Flash point **Evaporation rate** No information available **Flammability** No information available Lower explosion limit No information available No information available **Upper explosion limit** No information available Vapor pressure Relative vapor density No information available

Remarks Method

Density and/or relative density
Solubility
No information available.
No information available Viscosity, dynamic
No information available

Other information

Softening point No information available

Molecular Weight 805.00

VOC content
Liquid Density
No information available
No information available
Bulk density
No information available

## **SECTION 10. Stability and reactivity**

### Reactivity

No information available.

#### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

**Hazardous reactions**Hazardous polymerization
None under normal processing.
None under normal processing.

#### **Conditions to Avoid**

No information available

### **Incompatible Materials**

None known based on information supplied

## <u>Hazardous Decomposition Products</u>

None known based on information supplied

## **SECTION 11. Toxicological information**

## Information on likely routes of exposure

**Inhalation** Toxic by inhalation.

**Eye contact Skin contact**There is no data available for this product.
Irritating to skin. Toxic in contact with skin.

**Ingestion** Toxic if swallowed.

### Information on toxicological effects

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is not well defined.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Symptoms** Nausea. Vomiting. Abdominal pain. Diarrhea. Headache.

**Skin corrosion/irritation** Irritating to skin.

**Sensitization**No information available. **Mutagenic effects**No information available.

Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identifiable

as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Chronic Toxicity
Neurological effects
Aspiration Hazard
No information available.
No information available.
No information available.
No information available.

## **SECTION 12. Ecological information**

#### **Ecotoxicity**

100% of the mixture consists of components of unknown hazards to the aquatic environment.

Persistence and degradabilityNo information availableMobilityNo information availableBioaccumulationNo information available

## Other adverse effects

No information available.

## **SECTION 13. Disposal considerations**

## Waste Disposal Methods

Should not be released into the environment.

## Disposal considerations

Do not empty into drains; dispose of this material and its container in a safe way. Dispose of wastes in an approved waste disposal facility.

## **SECTION 14. Transport information**

### DOT

UN number UN3462

**UN proper shipping name** Toxins, extracted from living sources, solid, n.o.s. (Okadaic acid)

Transport hazard class(es) 6.1
Packing group II

### <u>IATA</u>

UN number UN3462

UN proper shipping name Toxins, extracted from living sources, solid, n.o.s. (Okadaic acid)

Transport hazard class(es)
Packing group

# **SECTION 15. Regulatory information**

## North American Inventory Listing

Chemical name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
9,10-Deepithio-9,10-didehydroa	Not Listed	Not Listed	Not Listed	Not Listed
canthifolicin				

### Canadian Workplace Hazardous Materials Information System (WHMIS) Classification



Class D1A - Very Toxic Materials at >= 1%
Class D2A - Very Toxic Material at >= 0.1%
Class D2B - Toxic Material at >= 1%

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

## Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

### U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

### US Commerce Department - Export Administration Regulations Information

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).

### U.S. Drug Enforcement Administration Information

This product does not contain any substances regulated under the DEA.

## **SECTION 16. Other information**

**Issuing Date:** 2015-04-27 **Revision Date:** 2024-10-23

#### 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 a 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 Safety Data Sheet**