

SDS#: 5934

Revision Date 2012-08-10

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Okadaic Acid

Product Number 5934

Identified Uses For Research Use Only (RUO). Not intended for use in humans or animals.

Not intended for therapeutic or diagnostic procedures.

Manufacturer/Supplier Cell Signaling Technology, Inc.

3 Trask Lane

Danvers, MA 01923 USA

Phone #: 978-867-2300

2. HAZARDS IDENTIFICATION

Emergency Overview

Danger



OSHA Hazards

Toxic by Inhalation, Toxic by Ingestion, Toxic by skin absorption, Irritant

GHS Classification

Acute Toxicity, Oral (Category 3)
Acute Toxicity, Inhalation (Category 3)
Acute Toxicity, Dermal
Skin Irritation (Category 2)

Physical State

Solid

Potential Health Effects

Acute Toxicity

Eyes May causes eye irritation.

Skin Toxic if absorbed through skin. May cause skin irritation. Inhalation Toxic if inhaled. May cause respiratory tract irritation.

Ingestion Toxic if swallowed.

Target organ effects Tumor promoter, Gastrointestinal disturbance

Chronic Effects

Carcinogenic effects Equivocal carcinogenic agent by RTECS criteria. Skin and appendages: Other: tumors

Mutagenic effects
Reproductive toxicity
Sensitization
No data available.
No data available.
No data available.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients

Chemical Name	CAS No.	Concentration
Okadaic Acid; OA	78111-17-8	>98%

4. FIRST AID MEASURES

Eye Contact Skin Contact Inhalation Rinse immediately with plenty of water for at least 15 minutes. Get medical attention. Rinse immediately with soap and plenty of water. Get medical attention immediately.

Move to fresh air. Get medical attention.

IngestionNever give anything by mouth to an unconscious person. Rinse mouth with water.

Notes to physician Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point

Not flammable. See Section 9. Physical and Chemical Properties

Suitable Extinguishing Media Special exposure hazards

Use dry chemical , water spray, alcohol resistant foam or carbon dioxide. Hazardous decomposition products formed under fire conditions —toxic gases $\,$

can be evolved.

Special protection for fire fighters Wear self-contained breathing apparatus and protective unit

Other information No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Environmental precautions Avoid contact with skin, eyes, clothing. Avoid creating dusts during clean up. Prevent product form entering drains. Prevent further spillage if safe to do so.

HANDLING AND STORAGE

Safe handling advice Ensure adequate ventilation. Handle in accordance with good industrial hygiene

and safety practice.

Storage conditions

Keep container tightly closed in cool dry place.

Incompatibilities
Specific end uses

No data available No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

This product contains no substances with established exposure limit values.

Engineering Measures

Emergency eyewash and safety shower. Mechanical exhaust required.



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Hygiene Measures

Do not eat, drink or smoke when handling product. Wear suitable gloves and eye/face protection. Wash hands thoroughly after handling product. Regular cleaning of equipment, work area and clothing is recommended. Wash contaminated clothing before reuse.

Personal Protective Equipment

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory protective equipment tested and approved under appropriate government standards such as NIOSH, CEN)

Eye Protection:

Safety glasses tested and approved under appropriate government standards such as NIOSH

Skin and body protection:

Wear suitable protective clothing, protective shoes or boots.

Hand protection:

Wear compatible chemical resistant gloves. Dispose of gloves in accordance with applicable laws and good laboratory practices.

PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State solid powder **Appearance** no data available Odor no data available Ηα no data available Melting point/freezing point no data available Boiling point no data available Evaporation rate no data available Flash point no data available Autoignition temperature no data available Flammability limits in air no data available Explosive properties no data available VOC content no data available Decomposition temperature no data available

Soluble in DMSO or ethanol

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions/Materials to avoid Acids and bases / protect from light and heat.

Hazardous decomposition products

Thermal decomposition may produce toxic gases such as carbon

monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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



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Acute Oral Toxicity: LD50 Oral, rat 0.15 mg/kg

Routes of Exposure Potential Health Effects

Acute Toxicity

Eyes May cause eye irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation. Inhalation May be harmful if inhaled. May cause respiratory tract irritation

Ingestion May be harmful if swallowed.

Target organ effects No information available

Chronic Effects

Carcinogenic effects
Mutagenic effects
Reproductive toxicity
Teratogenic effects
Sensitization
No information available
No information available
No information available
No information available

Additional Information: RTECS AA8227800

12. ECOLOGICAL INFORMATION

Ecotoxicity No data available

Persistence and degradability No data available

Bioaccumulation No data available

Mobility No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with all applicable environmental laws and

regulations.

14. TRANSPORT INFORMATION

IATA/DOT/IMDG

Proper Shipping Name Toxins, extracted from living sources, solid, n.o.s. (Okadaic Acid)

Hazard Class 6.1 Toxic Substance Subsidiary Class No information available

Packing Group I
UN-No 3462
Marine Pollutant: No
Poison Inhalation Hazard: No

15. REGULATORY INFORMATION

OSHA Hazards



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Toxic by Ingestion

GHS Classification

Acute Toxicity, Oral (Category 3)



Pictogram:

Signal Word: Warning

Hazard Statements

H301 Toxic if swallowed or in contact with skin

H315 Causes skin irritation H331 Toxic if inhaled

Precautionary Statements

P261 Avoid breathing dust

P280 Wear protective gloves/protective clothing

P301+P310 IF SWALLOWED: immediately call Poison Control or doctor/physician.

P311 Call Poison center or a doctor/physician.

U.S. Federal Regulations

SARA 302

No chemicals in this material are subject to reporting requirements established by SARA Title III, Section 302

SARA 311/312

Acute Health Hazard

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals that exceed the reporting levels of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulations

Massachusetts Right-to-Know Components:

None

New Jersey Right-to-Know Components:
Okadaic Acid
CAS# 78111-17-8

Pennsylvania Right-to-Know Components:
Okadaic Acid CAS# 78111-17-8

California Proposition 65





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

WHMIS Hazard Class

D1A Very toxic material causing immediate and serious toxic effects Highly Toxic

D2B Toxic material causing other toxic effects Moderate skin irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

Revision date 2012-08-10

Revision Note ***Indicates updated section

Disclaimer

The information provided on this material safety data sheet is to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet