

## 1. Identification

### A. Product identifier

**Product name** Oligomycin  
**Product Code(s)** 9996

### B. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** For Research Use Only. Not for Use in Diagnostic Procedures.  
**Uses advised against** No information available

### C. Supplier's details

**Manufacturer**

Cell Signaling Technology, Inc.  
 3 Trask Lane  
 Danvers, MA 01923  
 United States  
 TEL: +1 978 867 2300  
 FAX: +1 978 867 2400

**Supplier**

Seoulin Bioscience Co., Ltd.  
 경기도 성남시 분당구 대왕판교로 700  
 TEL: 1670-5911  
 E-mail: support@seoulin.co.kr

**Supplier**

Koram Biotech Co., Ltd.  
 서울시 강남구 선릉로76길 4  
 TEL: 02-556-0311  
 Email: koram@korambiotech.com

For further information, please contact

**Email address** support@cellsignal.com

**Emergency telephone number** **CHEMTREC** 24 hours a day, 7 days a week, 365 days a year  
 +1 703 527 3887 (INTERNATIONAL) +1 800 424 9300 (NORTH AMERICA)  
 080-880-0468

## 2. Hazard(s) identification

### A. Classification of the substance or mixture

Acute toxicity - Oral	Category 3
Specific target organ toxicity (single exposure)	Category 1

### B. GHS Label elements, including precautionary statements



**Signal Word**  
 Danger

**Hazard Statements**

H301 - Toxic if swallowed  
H370 - Causes damage to organs

**Precautionary Statements - Prevention**

Do not breathe 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.

**Precautionary Statements - Response**

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician..  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Rinse mouth

**Precautionary Statements - Storage**

Store locked up.

**Precautionary Statements - Disposal**

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

**C. Other hazards which do not result in classification**

Not applicable

**3. Composition/information on ingredients**

Chemical name	CAS No	Weight-%	Other information
Oligomycin	1404-19-9	100	

**4. First-aid measures**

- A. In case of eye contact** Rinse thoroughly with plenty of water, also under the eyelids.
- B. In case of skin contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
- C. In case of inhalation** Move to fresh air.
- D. In case of ingestion** Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Call a physician immediately.
- E. Indication of immediate medical attention and special treatment needed, if necessary**
- Note to physicians** Treat symptomatically.
- Symptoms** Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

**5. Fire-fighting measures****A. Suitable (and unsuitable) extinguishing media**

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

**Unsuitable Extinguishing Media** No information available

**B. Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Hazardous Combustion Products** Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

**C. Special Protective Equipment for Firefighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### A. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment Avoid dust formation Ensure adequate ventilation Do not touch damaged containers or spilled material unless wearing appropriate protective clothing Do not get in eyes, on skin, or on clothing

**For emergency responders** Use personal protection recommended in Section 8.

**B. Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Should not be released into the environment.

### C. Methods and material for containment and cleaning up

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

**Methods for cleaning up** Use personal protective equipment. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

### A. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

### B. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep in properly labeled containers Keep container tightly closed. Recommended storage temperature -20°C °C

**Incompatible products** Strong oxidizing agents.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

## 8. Exposure controls/personal protection

**A. Control Parameters**

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

**B. Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Environmental exposure controls** No information available.

**C. Personal Protective Equipment**

**Respiratory protection** In case of inadequate ventilation wear respiratory protection.

**Eye protection** Safety glasses with side-shields

**Hand protection** Impervious gloves.

**Body protection** Wear suitable protective clothing.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

**A. Appearance** Powder  
**Physical State** Solid  
**color** White

**B. Odor** No information available

**C. Odor Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>D. pH</b>	No information available	None known
<b>E. Melting point/freezing point</b>	150 °C	None known
<b>F. Initial boiling point and boiling range</b>	No information available	None known
<b>G. Flash point</b>	No information available	None known
<b>H. Evaporation rate</b>	No information available	None known
<b>I. Flammability</b>	No information available	None known
<b>J. Upper/lower flammability or explosive limits</b>		
<b>Upper explosion limit</b>	No information available.	No information available
<b>Lower explosion limit</b>	No information available.	No information available
<b>K. Vapor pressure</b>	No information available	None known
<b>L. Solubility(ies)</b>		
<b>Solubility</b>	Insoluble in water	None known
<b>Solubility in other solvents</b>	No information available	None known
<b>M. Relative vapor density</b>	No information available	None known
<b>N. Specific Gravity</b>	No information available	None known
<b>O. Partition coefficient: n-octanol/water</b>	No information available	None known
<b>P. Autoignition Point</b>	No information available	None known

<b>Q. Decomposition temperature</b>	No information available	None known
<b>R. Viscosity</b>		
<b>Viscosity</b>	No information available	None known
<b>Viscosity, dynamic</b>	No information available	None known
<b>S. Molecular Weight</b>	791.07	

**Other information**

<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Softening point</b>	No information available
<b>VOC content</b>	No information available
<b>Liquid Density</b>	No information available

**10. Stability and reactivity****A. Chemical stability and possibility of hazardous reactions**

**Stability** Stable under normal conditions.

**Possibility of hazardous reactions** None under normal processing.

**Explosion Data**

Sensitivity to mechanical impact None  
Sensitivity to static discharge None

**B. Conditions to Avoid** None known based on information supplied

**C. Incompatible products** Strong oxidizing agents

**D. Hazardous Decomposition Products** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>)

**11. Toxicological information****A. Information on the likely routes of exposure****Product Information**

**Inhalation** May be toxic by inhalation. Inhalation of dust in high concentration may cause irritation of respiratory system, May cause cardiac and respiratory depression.

**Ingestion** Toxic if swallowed. May cause adverse cardiac effects, blood disturbances, and metabolic acidosis.

**Eye contact** Avoid contact with eyes. Contact with eyes may cause irritation.

**Skin contact** There is no data available for this product. Prolonged contact may cause redness and irritation.

**Symptoms** Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

**B. Health hazards information**

**Numerical measures of toxicity** No information available

**Unknown Acute Toxicity**

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available
<b>Sensitization</b>	No information available
<b>Carcinogenicity</b>	No information available.
<b>Mutagenic effects</b>	No information available
<b>Reproductive toxicity</b>	No information available.
<b>Specific target organ toxicity (STOT) – single exposure</b>	Causes damage to organs: Respiratory system, Central nervous system, Liver, Kidney,
<b>Specific target organ toxicity (STOT) – repeated exposure</b>	No information available
<b>Target Organ Effects</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## 12. Ecological information

<b>A. Ecotoxicity</b>	The environmental impact of this product has not been fully investigated.
<b>Percentage for unknown hazards</b>	100 % of the mixture consists of component(s) of unknown hazards to the aquatic environment
<b>B. Persistence and degradability</b>	No information available.
<b>C. Bioaccumulative potential</b>	No information available.
<b>D. Mobility in soil</b>	No information available.
<b>E. Other adverse effects</b>	No information available.

## 13. Disposal considerations

<b>A. Waste treatment methods</b>	
<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>B. Disposal considerations</b>	
<b>Contaminated packaging</b>	Do not reuse empty containers.

**14. Transport information****Note**

<b>A. UN number</b>	UN2811
<b>B. UN proper shipping name</b>	Toxic solid, organic, n.o.s. (Oligomycin)
<b>C. Transport hazard class(es)</b>	6.1
<b>D. Packing group</b>	III
<b>E. Marine Pollutant</b>	Not regulated
<b>F. Special precautions for user</b>	No information available

**15. Regulatory information**

**A. Industrial Safety and Health Law** Not applicable

**Harmful substances subject to control** Not applicable

**Harmful agents subject to work environment monitoring** Not applicable

**Harmful agents subject to workers requiring health examination** Not applicable

**B. Chemicals Control Act** not applicable  
**Chemicals Control Act (CCA) - Accident Precaution Chemicals** Not applicable

**C. Safety Control of Dangerous Substances Act** No information available

**D. Wastes Management** Dispose of waste in accordance with environmental legislation.

**E. Other Regulations** No information available

**International inventories**

<b>TSCA 8(b)</b>	Contact supplier for inventory compliance status.
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>IECSC</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

TSCA - *United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL - *Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS - *European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances*

ENCS - *Japan Existing and New Chemical Substances*

IECSC - *China Inventory of Existing Chemical Substances*

KECL - *Korean Existing and Evaluated Chemical Substances*

PICCS - *Philippines Inventory of Chemicals and Chemical Substances*

AICS - *Australian Inventory of Chemical Substances*

**16. Other information**

**A. Information source and references**

**Prepared By** No information available.

**B. Issuing Date:** 2025-01-15

**C. Revision number and date**

**Version:** 1

**D. Other information** .

**Key or legend to abbreviations and acronyms used in the safety data sheet**

IMDG International Maritime Dangerous Goods (IMDG)

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA:	Time weighted average	STEL:	Short term exposure limit
Ceiling:	Maximum limit value:	*	Skin designation

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 RTECS (Registry of Toxic Effects of Chemical Substances)  
 World Health Organization

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**End of Safety Data Sheet**