SAFETY DATA SHEET



Order Customer Number Number

Identification of the substance/preparation and of the company/undertaking 1.

Oligomycin **Product name**

Catalog #

: 495455

Chemical formula N/A **Supplier**

Manufactured by EMD Biosciences, Inc.

10394 Pacific Center Court San Diego, CA 92121 (858)450-5558/(800)854-3417

FAX: (858)453-3552

Synonym Not available.

> **Emergency** telephone number

Call Chemtrec®

(800)424-9300 (within U.S.A.) (703)527-3887 (outside U.S.A.)

Composition / information on ingredients

Substance/Preparation Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
1) Oligomycin	1404-19-9	Not available.	Xi	R36/38

Hazards identification **3.**

Physical/chemical hazards

: Not applicable.

Human health hazards

CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION.

First-aid measures

First-Aid measures

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Effects and symptoms

Skin Contact

Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eye Contact

Hazardous in case of eye contact (irritant).

Aggravating conditions

Repeated or prolonged exposure is not known to aggravate medical condition.

Fire-fighting measures

Flammability of the Product

: May be combustible at high temperature.

Extinguishing Media

Suitable SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

products

Hazardous thermal (de)composition: These products are nitrogen oxides (NO, NO2...).

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Special fire-fighting procedures

- : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- : Be sure to use an approved/certified respirator or equivalent.

Accidental release measures

Personal precautions

Protection of fire-fighters

: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Small Spill and Leak

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill and Leak

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system

7. Handling and storage

Handling

: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 20°C (68°F).

Packaging materials

Recommended use

: Use original container.

Exposure controls/personal protection 8.

Engineering measures

: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Hygiene measures

: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name 1) Oligomycin

Occupational Exposure Limits

Not available.

Personal protective equipment

Respiratory system

: Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Skin and body

Lab coat.

Hands

Gloves.

Eyes

Splash goggles.

Protective Clothing (Pictograms)







Physical and chemical properties

Physical state

Solid. (Solid powder.)

White to yellowish. (Light.)

Molecular Weight

Not available.

Solubility

Not available.

Flash point

Not available.

Explosive properties

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Stability and reactivity

Stability

: The product is stable.

Conditions to avoid

Not available.

Hazardous Decomposition Products: These products are nitrogen oxides (NO, NO2...).

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11. Toxicological information

RTECS # : RK3325000

Local effects

Skin irritation : Hazardous in case of skin contact (irritant).

Acute toxicity : LD50: Not available.

LC50: Not available.

Chronic toxicity : Repeated or prolonged exposure is not known to aggravate medical condition.

Other Toxic Effects on

Uther Toxic Effects on

Humans

Hazardous in case of skin contact (irritant).

Not available.

Not available.

Carcinogenic effects: Not available.Mutagenic effects: Not available.Reproduction toxicity: Not available.Teratogenic effects: Not available.

Ecological information

Ecotoxicity : Not available.

Toxicity of the Products of Biodegradation

: The product itself and its products of degradation are not toxic.

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

International transport regulations

Land - Road/Railway

ADR/RID Class : Not controlled under ADR (Europe).

<u>sca</u>

<u>Air</u>

IMDG Class : Not controlled under IMDG.

IATA-DGR Class

Special Provisions for

: Not controlled under IATA.

Not applicable.

15. Regulatory information

EU Regulations

Transport

Hazard symbol(s)



Classification : Irritant

Risk Phrases : R36/38- Irritating to eyes and skin.

Safety Phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

<u>U.S. Federal Regulations</u> : TSCA: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found.

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Clean air act (CAA) 112 regulated toxic substances: No products were found.

: CLASS: Irritating substance.

HCS Classification State Regulations

WHMIS (Canada)

: Not controlled under WHMIS (Canada).

No products were found.

16. Other information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

	Date of issue		
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