

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Actinomycin / Dactinomycin

Product ID A0977

Chemical Name (Synonyms)

Actinomyucin D; Meractinomycin

Supplier

LKT Laboratories, Inc.

545 Phalen Blvd. St. Paul, MN 55130 USA

Ph: 651-644-8424 Fax: 651-644-8357 www.lktlabs.com - getinfo@lktlabs.com

Emergency Phone #

1-800-424-9300

Section 2. Hazards Identification

GHS Classification Acute toxicity, Oral (Category 2), H300

GHS Label elements including precautionary statements

Pictogram



Signal word

Danger

Hazard and precautionary statements **Hazard statement**

H300 - Fatal if swallowed.

Precautionary statements

P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P330 - Rinse mouth.

P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant.

HMIS Classification Health hazard: 3

Chronic health hazard: * Flammability: 0
Physical hazard: 0

NFPA Rating

Health hazard: 3 Fire hazard: 0 Reactivity hazard: 0

Potential Health Effects

Inhalation - May cause respiratory tract infection.

Skin - May cause skin irritation.

Eyes - May cause serious eye irritation.

Section 3.	Composition/Info	ormation on	Ingredients
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Substances

1255.50 **Formula** Formula Wt. $C_{62}H_{86}N_{12}O_{16}$ 50-76-0 EC No. 200-063-6 CAS No.

Section 4. First Aid Measues

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 . Firefighting Measures

Flash Point

Not available.

Extingushing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon oxide.

Firefighting Procedures

Wear self-contained breathing apparatus for firefighting and protective clothing if necessary.

Unusual Fire Hazards

Carbon oxides and nitrogen oxides (NOx).

Section 6. Accidental Release Measures

Personal Precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup

Avoid creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions

Store in a dry and well-ventilated place in a tightly closed container.

Recommended storage temperature: Ambient

Hazardous Decomposition **Products**

Carbon monoxide, carbon dioxide and nitrogen oxides.

Other Remarks

This product is light sensitive.

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

Appropriate engineering controls - Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

PERSONAL PROTECTION

PERSONAL PROTECTION

Eye/face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full and Splash contact - Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min. material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).

Body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.

particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Solid. Salmon pink crystal powder. **Physical State** Color Not available. Not available. **Boiling Point** Volatility Melting point/range: 243°C-248°C (Dec.) Not available. **Melting Point Density** Soluble in ethanol, propylene glycol, water and Not available. glycol mixture. Soluble in DMSO (50mg/mL) or methanol (10mg/mL). **Solubility** pН Not available. Not available. Ignition **Flash Point** temperature Not available Not available. **Autoignition** Lower explosion limit temperature Not available. Not available. Vapor Upper explosion limit pressure Not available. Not available. Water solubility Odor Partition coefficient: Not available. Not available. Odor n-octanol/water Threshold Relative vapor density Not available. Not available. **Evaporation** rate

Section 10. Stability and Reactivity

Stable under recommended storage conditions. Stability

Strong oxidizing agents, strong bases and strong acids.

Materials To Avoid

Hazardous Carbon monoxide, carbon dioxide and nitrogen oxides. Decomposition Products

Possibility of Not available. hazardous reactions

Not available.

Conditions to avoid

Section 11. Toxicological Information

Oral LD50 Rat 7.2 mg/kg

Mouse 13 mg/kg Gastrointestinal:"Hypermotility, diarrhea"

Blood: other changes

Inhalation LC50 Not available.

corrosion/irritation

Skin Not available.

Serious eye Not available.

damage/irritation

Dermal LD50 Not available.

Respiratory or Prolonged or repeated exposure may cause skin sensitization allergic reactions in certain sensitive individuals.

Other information on Not available.

acute toxicity

Germ cell mutagenicity Laboratory experiments have shown

mutagenic effects. rat, liver, DNA damage rat, DNA damage

Reproductive Toxicity Not available.

Overexposure may cause reproductive disorder(s) based on tests with laboratory

animals.

Aspiration Hazard Not available

Specific organ toxicity Not available.

single exposure (GHS)

Synergistic effects Not available.

Specific organ toxicity Not available. repeated exposure (GHS)

Additional Information RTECS: AU1575000

anemia, drowsiness, weakness

liver, irregularities, based on human evidence

Teratogenicity Not available.

Signs and symptoms Not available. of exposure

Potential Inhalation - May cause respiratory tract infection.

Health Effects Skin - May cause skin irritation.

Eyes - May cause serious eye irritation.
Ingestion - Acute toxicity. Fatal if swallowed.
Reproduction - May cause reproductive harm.

Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity basded on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Dactinomycin).

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by ACGIH

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity Not available.

Mobility in soil Not available.

PBT and vPvB PBT/vPvB assessment not available as assessment chemical safety assessment not required/not Bioaccumulative potential Not available.

Section 13. Disposal Considerations

Waste Disposal

Dispose of material according to all federal, state, and local regulations.

Offer material to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused product.

Section 14. Transport Information

DOT (US) UN number: 3462 Class: 6.1 Packing group: II

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Dactinomycin)

Marine pollutant: No Poison inhalation hazard: No

Packing group: II UN number: 3462 Class: 6.1

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Dactinomycin)

IMDG UN number: 3462 Class: 6.1

UN number: 3462 Class: 6.1 Packing group: II EMS-No: F-A, S-A Proper shipping name: TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Dactinomycin)

Marine pollutant: No

Further Information

Section 15. Regulatory Information

Reach No.

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De

Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components Acute health hazard, chronic health hazard.

Massachusetts Right Actinomycin / Dactinomycin CAS #: 50-76-0 Revision Date: 1993-04-24

To Know Components

Pennsylvania Right Actinomycin / Dactinomycin CAS #: 50-76-0 Revision Date: 1993-04-24

To Know Components

New Jersey Right Actinomycin / Dactinomycin CAS #: 50-76-0 Revision Date: 1993-04-24 **To Know Components**

Components

California Prop 65 WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or

other reproductive harm.

Actinomycin / Dactinomycin CAS #: 50-76-0 Revision Date: 2007-09-28

Section 16. Other Information

Other information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

Updated 6/14/2019

For emergencies in the USA, call CHEMTREC 800-424-9300