

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Bleomycin Sulfate

Product ID B4518

Chemical Name (Synonyms)

Blenoxane; Blexane

LKT Laboratories, Inc

545 Phalen Blvd. **Supplier**

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 Germ cell mutagenicity (Category 1B), H340

Carcinogenicity (Category 2), H351 Reproductive toxicity (Category 2), H361

GHS Label elements including precautionary statements

Pictogram



Signal word

Danger

Hazard and precautionary statements **Hazard statements**

H340 - May cause genetic defects.

H351 - Suspected of causing cancer.
H361 - Suspected of damaging fertility or the unborn child.
Precautionary statements

P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood.

P281 - Use personal protective equipment as required.

P308 + P313 - IF exposed or concerned: Get medical advice/ attention. P405 - Store locked up.

P501 - Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification

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

NFPA Rating

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

Potential Health Effects

Inhalation - May be harmful if inhaled. May cause respiratory irritation. Skin - May be harmful if absorbed through skin. May cause skin irritation. Eyes - May cause eye irritation. Ingestion - May be harmful if swallowed.

Substances

Formula Wt. 1512.63 **Formula** C₅₅H₈₄N₁₇O₂₁S₃ • H₂SO₄ CAS No. 9041-93-4 EC No. 232-925-2

Section 4. First Aid Measues

General advice

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

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash off with soap and plenty of water. 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 dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus for firefighting if necessary.

Not known.

Unusual Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions

Use personal protective equipment. 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

Pick up and arrange disposal without 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

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: +4°C

Hazardous Decomposition Not available.

Products

Other Remarks

Strongly hygroscopic.

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

PERSONAL PROTECTION

Eye/face protection: Safety glasses with side-shields conforming to EN 166. 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: Impervious clothing. 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. 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. White crystal powder. **Physical State** Color Not available. Not available. **Boiling Point** Volatility Not available. **Melting Point** Density Soluble in water to 20 mg/mL. DMSO to 100 Not available. Solubility mg/mL. Methanol. 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 Soluble in water to 20 mg/mL. 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

Stability

Stable under recommended storage conditions.

Materials To Avoid

Strong oxidizing agents.

Hazardous Not available. Decomposition Products

Possibility of Not available. hazardous reactions

Conditions to avoid

Not available.

Section 11. Toxicological Information

Oral LD50 Not available. Skin Not available.

corrosion/irritation

Serious eye Not available. Inhalation LC50 Not available.

damage/irritation

Dermal LD50 Not available. Respiratory or Not available.

skin sensitization

Other information on Not available. Germ cell mutagenicity In vivo tests showed mutagenic effects.

Reproductive Toxicity Suspected human reproductive toxicant.

Aspiration Hazard Not available.

Specific organ toxicity Not available. Synergistic effects Not available.

single exposure (GHS)

acute toxicity

Specific organ toxicity Not available. Additional Information RTECS: EC5991990

repeated exposure (GHS)

Teratogenicity

Signs and symptoms Anorexia, nausea, vomiting, fever, headache, of exposure lowered blood pressure, alopecia (a partial or complete absence of hair from areas of the body where it normally grows) and confusion.

> Stomach, irregularities, based on human evidence.

Potential Inhalation - May be harmful if inhaled. May cause respiratory irritation.

Health Effects
Health Effects

Health Effects

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Health Effects

Hay cause eye irritation.

Carcinogenicity This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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. Persistence and degradability Not available.

Other adverse effects Not available.

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, professional waste 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) Not dangerous goods.

IATA Not dangerous goods.

IMDG Not dangerous goods.

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 Chronic health hazard

Massachusetts Right No components are subject to the Massachusetts Right to Know Act. To Know Components

Pennsylvania Right Bleomycin, sulfate CAS #: 9041-93-4 Revision Date: To Know Components

New Jersey Right Bleomycin, sulfate CAS #: 9041-93-4 Revision Date: To Know Components

California Prop 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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 5/3/2019

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