

Safety Data Sheet

Revision Date: 1/23/2020

Section 1: Chemical Identification

1.1 Chemical Identification

Product Name: Vincristine Sulfate

Alternative Name: 22-Oxovincaleukoblastinesulfate Salt

Catalog Number: V-500

1.2 Relevant Uses and Uses Advised Against

Recommended use: This product is not for use in humans. It is for research purposes

only.

1.3 Supplier Contact Information

Distributed by: Gold Biotechnology, Inc.

1328 Ashby Rd.

St. Louis, MO 63132

Phone: (314) 890-8778 **Fax:** (314) 890-0503

Email: contactgoldbio86@goldbio.com

1.4 Emergency Contact Information

Emergency Phone: (800)248-7609 (Monday-Friday, 9:00 a.m. – 5:00 p.m. CST)

Section 2: Hazardous Information

2.1 GHS Classification

Acute Toxicity, Oral (Category 2) Germ Cell Mutagenicity (Category 2) Reproductive Toxicity (Category 2)

2.2 GHS Label Elements, Including Precautionary statements





DANGER!

2.3 Hazard Statements

H300: Fatal if swallowed

H341: Suspected of causing genetic defects

H361: Suspected of damaging fertility or the unborn child

2.4 Precautionary Statements

P201: Obtain special instructions before use

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Gold Biotechnology Vincristine Sulfate FM-00002 / V-500 SDS Date: 1/23/2020 Page **2** of 8

P202: Do not handle until all safety precautions have been read and understood

P264: Wash skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product P281: Use personal protective equipment as required

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P308+313: IF exposed or concerned: Get medical advice/attention P321: Specific treatment (see First Aid Measures on this label)

P330: Rinse mouth
P405: Store locked up

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

Section 3: Composition/Information on Ingredients

3.1 Composition

Identity: Vincristine Sulfate

IUPAC: methyl (1R,9R,10S,11R,12R,19R)-11-acetyloxy-12-ethyl-4-[(13S,15S,17S)

-17-ethyl-17-hydroxy-13-methoxycarbonyl-1,11-diazatetracyclo

tetraene-10-carboxylate; sulfuric acid

Synonyms: 22-Oxovincaleukoblastinesulfate Salt

CAS Number: 2068-78-2 Molecular Formula: $C_{46}H_{58}N_4O_{14}S$ Molecular Weight: 923.03 g/mol

Section 4: First Aid Measures

4.1 Detailed First Aid Measures

Inhalation: If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

Skin: Immediately wash skin copiously with soap and water. Take victim

immediately to hospital. Consult a physician.

Eye: Immediately rinse out with water for at least 15 minutes. Assure

adequate flushing by separating the eyelids with fingers. Consult a

physician.

Ingestion: Wash out mouth with water. Drink plenty of water. Consult a

physician. Never give anything by mouth to an unconscious person.

Notes to Physician: Treat symptomatically and supportively.

4.2 Most Important Symptoms And Effects, Either Acute Or Delayed

The most important known symptoms and effects are described in the labeling (see section2). And /or in section 11.

4.3 Indication of immediate medical attention and special treatment needed

Not available

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Section 5: Fire Fighting Measures

5.1 Conditions of flammability:

Not flammable or combustible.

5.2 Suitable extinguishing media:

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

5.3 Specific hazards arising from the chemical

During a fire, highly toxic gases may be generated by thermal decomposition or combustion – Carbon Oxides, Nitrogen Oxides (NOx), Sulfur Oxides.

SDS Date: 1/23/2020

Page 3 of 8

5.4 Specific protective actions for fire-fighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions:

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up:

Soak up with absorbent material, discard.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Always wear personal protective equipment (PPE, see section 8).

7.2 Conditions for safe storage, including and incompatibilities:

Keep container tightly closed.

Store at 4°C.

Section 8: Exposure Controls / Personal Protection

8.1 Control Parameters:

Contains no substances with occupational exposure limit values.

8.2: Appropriate engineering controls:

Contains no substances with occupational exposure limit values.

8.3 Personal Protective Equipment (PPE):

Eye/Face Protection: Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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SDS Date: 1/23/2020 Page **4** of 8

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique - without touching outer surface of glove - 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. 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).

Other Protective Clothing or Equipment: Wear appropriate protective clothing to prevent exposure.

Section 9: Physical and Chemical Properties

9.1 General chemical and physical properties

Appearance: White Powder
Odor: Not Available
Odor Threshold: Not Available
pH: Not Available

Melting Point: 300°C

Freezing Point: Not Available **Boiling Point/Range:** Not Available Flash Point: Not Available **Evaporation Rate:** Not Available Lower Explosion Limit: Not Available **Upper Explosion Limit:** Not Available **Vapor Pressure:** Not Available Not Available **Vapor Density: Relative Density:** Not Available Not Available Solubility:

Partition Coefficient

n-octanol/water: Not Available

Auto-Ignition

Temperature: Not Available

Decomposition

Temperature: Not Available

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Viscosity: Not Available

Section 10: Stability and Reactivity Data

10.1 Reactivity:

Not available

10.2 Chemical Stability:

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:

Not available.

10.4 Conditions to avoid:

Incompatible materials, Avoid moisture.

10.5 Incompatible materials:

Strong oxidizing agents, Heavy metal salts.

10.6 Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. – Carbon Oxides, Nitrogen Oxides (NOx), Sulfur Oxides.

Section 11: Toxicological Information

11.1 Toxicological effects

Acute toxicity:

Vincristine Sulfate Intraperitoneal: LD_{so} (Rat) - 1.9 mg/kg

Vincristine Sulfate Intravenous: LD₅₀ (Rat) - 1.01 mg/kg

Remarks: Diarrhoea Kidney, Ureter, Bladder: Urine volume increased.

SDS Date: 1/23/2020

Page 5 of 8

Blood: Normocytic anemia

Vincristine Sulfate Intravenous: LD₅₀ (Mouse) - 1.7 mg/kg

Skin corrosion/irritation:

Not available.

Respitory or skin sensitization:

Not available.

Germ cell mutagenicity:

In vitro tests showed mutagenic effects Human (leukocyte) Cytogenetic analysis Human (lymphocyte) Micronucleus test Hamster (Embryo) Morphological transformation.

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SDS Date: 1/23/2020 Page **6** of 8

Mouse - Micronucleus test Mouse - Dominant lethal test

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans

(Vincristine sulphate)

ACGIH: 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 ACGIH.

NTP: 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 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.

Reproductive toxicity:

Laboratory experiments have shown teratogenic effects. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Suspected of damaging fertility. Suspected of damaging the unborn child. Suspected human reproductive toxicant.

STOT-single exposure:

Effects due to ingestion may include:, peripheral neuropathy, constipation, Alopecia

STOT-repeated exposure:

Not available.

Aspiration hazard:

Not available.

Likely routes of exposure:

Respiratory organs, mouth, skin, and eyes.

Symptoms of exposure:

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

Additional Information:

RTECS: OH6340000

Section 12: Ecological Information

12.1 Toxicity:

Not available.

12.2 Persistence and degradability:

Inherent biodegradability.

12.3 Bioacumulative potential:

Does not bioaccumulate.

12.4 Mobility in soil:

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SDS Date: 1/23/2020 Page **7** of 8

Not available.

12.5 Other adverse effects:

None.

Section 13 Disposal Considerations

Dispose of product in accordance with local rules and regulations.

Section 14: Transport Information

14.1 US Department of Transportation (DOT)

UN Number: 2811

Proper shipping name: Toxic solids, organic, n.o.s. (Vincristine sulphate)

Class: 6.1 Packing Group: II

Marine Pollutant:

14.2 International Maritime Dangerous Goods (IMDG):

UN Number: 2811

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Vincristine sulphate)

Class: 6.1 Packing Group: II

Marine Pollutant:

14.2 International Air Transportation Association (IATA)

UN Number: 2811

Proper shipping name: Toxic solid, organic, n.o.s. (Vincristine sulphate)

Class: 6.1 Packing Group: II

Marine Pollutant:

Section 15: Regulatory Information

SARA 302 Components:

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

SARA 313 Components:

SARA 313: 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 Hazards:

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components:CAS - No.Vincristine Sulfate2068-78-2

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Gold Biotechnology SDS Date: 1/23/2020 Vincristine Sulfate Page 8 of 8 FM-00002 / V-500

Pennsylvania Right To Know Components:CAS - No.Vincristine Sulfate2068-78-2New Jersey Right To Know Components:CAS - No.Vincristine Sulfate2068-78-2

California Prop. 65 Components:

This product does not contain any chemical known to the State of California to cause cancer, birth, or any other reproductive defects.

Section 16: Other Information

While Gold Biotechnology, Inc. believes the information contained herein to be true and accurate, it has relied on information provided by others. Gold Biotechnology, INC. makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or with respect to the results to be obtained from the use of the product. Gold Biotechnology, Inc. disclaims all liability with respect to the use of this product, including without limitation, liability for injury to the user or third-party persons.

Preparation Information

Gold Biotechnology Content/Marketing Department (800) 248-7609

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