

# Safety Data Sheet

## Safety Data Sheet - LC Laboratories Revision Date: July 1, 2019

### SECTION 1. IDENTIFICATION:

Trade name: Vincristine, Sulfate Salt

Product Number: [V-8400](#)

Manufacturer/Supplier:

LC Laboratories

165 New Boston Street

Woburn, MA 01801 USA

1-781-937-0777 Fax: 1-781-938-5420

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### SECTION 2. HAZARD(S) IDENTIFICATION:

Hazard Description: Harmful; Irritant

RTECS Substance category: Tumorigen; Drug; Mutagen; Human Data;  
Reproductive Effector

Harmful if swallowed; may be harmful if inhaled or absorbed through the skin

Irritating to eyes, skin, and respiratory system

Exposure may result in alopecia, constipation, anorexia (loss of appetite), nausea, vomiting, abdominal pain, ileus (obstruction of the small intestine), stomatitis and oral vesiculation (inflammation/blistering/ulceration of the mucous membranes lining of the mouth), pharyngitis, diarrhea, gastrointestinal bleeding, malaise, granulocytopenia (decreased white blood cells), thrombocytopenia (decreased blood platelets), anaemia (decreased red blood cells), hypertension (elevated blood pressure), central and peripheral neurotoxicity, 8th cranial nerve damage resulting in vestibular and auditory toxicity (loss of hearing and balance), ischemic cardiac toxicity, dyspnea (shortness of breath), bone and jaw pain, syndrome of inappropriate antidiuretic hormone resulting in urine retention and hyponatremia (low serum sodium concentration), paresthesias (numbness of fingers), loss of deep tendon reflexes, peripheral neuritis, mental depression, headache, convulsions

Exposure may impair fertility, may cause harm to the unborn and breastfed child, and may cause cancer

Signal Word: Danger

#### GHS Hazard Statements:

H302+312+332 - Harmful if swallowed, in contact with skin or if inhaled

#### GHS Precautionary Statements:

P2562 - Do not get in eyes, on skin or on clothing

WARNING: For Laboratory Research Use Only



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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: 22-Oxovincal leukoblastine sulfate

Synonyms: Kyocristine, LCR sulfate, Leurocristine sulfate, Lilly 37231, Marqib, NSC-67574, Novopharm, Oncovin, Onkovin, 22-Oxovincal leukoblastine sulfate, VCR sulfate, Vincasar PFS, Vincrex, Vincristine hydrogen sulfate, Vincrisul

Hazardous Ingredient: Vincristine, Sulfate Salt

CAS Registry Number: 2068-78-2

Molecular Weight: 923.04

Molecular Formula:  $C_{46}H_{56}N_4O_{10} \cdot H_2SO_4$

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#### **SECTION 4. FIRST-AID MEASURES:**

After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration

After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a physician

After eye contact: check for and remove contact lenses; flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician

After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician

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#### **SECTION 5. FIRE-FIGHTING MEASURES:**

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder or foam

Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Unusual fire hazard: may emit toxic fumes under fire conditions such as carbon monoxide, etc.

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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES:**

Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective clothing and heavy rubber gloves

Measures for cleaning/collecting: absorb solutions with finely- powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according to Section 13

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#### **SECTION 7. HANDLING AND STORAGE:**

Information for safe handling: avoid contact with skin, eyes and clothing; material may be an irritant

Storage: store solid and solutions at -20 °C

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#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

Personal protective equipment as follows:

Breathing equipment: NIOSH/MSHA-approved respirator

Protection of hands: handle with Nitrile rubber gloves with minimum thickness of 0.11 mm (4.3 mil). This recommendation should not be interpreted as offering an approval for any specific use conditions. Please review this recommendation with a safety officer to evaluate if it is appropriate for the anticipated use.

Eye protection: chemical safety goggles

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:**

Form: crystalline solid; granular or powder

Color: white

Odor:

Melting point/Melting range: not determined

Danger of explosion: none

Solubility in / Miscibility with water: soluble in water at 25 mg/mL with warming; buffers, serum, or other additives may increase or decrease the aqueous solubility

Solvent content:

Organic solvents: soluble in DMSO at 60 mg/mL; very poorly soluble in ethanol

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## **SECTION 10. STABILITY AND REACTIVITY:**

Stability: avoid acids and bases

Thermal decomposition / conditions to be avoided: protect from light and heat

Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide and carbon dioxide, and nitrogen oxides

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## **SECTION 11. TOXICOLOGICAL INFORMATION:**

RTECS #: OH6340000

Acute toxicity: intravenous toxicity (LD50): 1.01 mg/kg (rat), 1.7 mg/kg (mouse); intraperitoneal toxicity (LD50): 1.9 mg/kg (rat), 3 mg/kg (mouse)

Primary irritant effect:

On the skin: causes skin irritation; may be harmful if absorbed through the skin

On the eye: causes eye irritation

Inhalation: causes respiratory tract irritation; may be harmful if inhaled

Ingestion: harmful if swallowed

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## **SECTION 12. ECOLOGICAL INFORMATION:**

General notes: no data available

Treat as potentially toxic if released into the environment

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## **SECTION 13. DISPOSAL CONSIDERATIONS:**

Dispose of in accordance with prevailing country, federal, state and local regulations

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**SECTION 14. TRANSPORT INFORMATION:**

UN number: 2811

DOT: Toxic solid, organic, n.o.s. (Vincristine Sulfate), Class: 6.1, Packing group: II

IMDG: Toxic solid, organic, n.o.s. (Vincristine Sulfate), Class: 6.1, Packing group: II

IATA: Toxic solid, organic, n.o.s. (Vincristine Sulfate), Class: 6.1, Packing group: II

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**SECTION 15. REGULATORY INFORMATION:**

Code letter and hazard designation of product:

Xn: Harmful; Xi: Irritant

EU Risk And Safety phrases:

S22: Do not breathe dust

S24/25: Avoid contact with skin and eyes

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

R22: Harmful if swallowed

R36/37/38: Irritating to eyes, respiratory system and skin

R46: May cause inheritable genetic damage

R60: May impair fertility

R61: May cause harm to the unborn child

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**SECTION 16. OTHER INFORMATION:**

The above information is believed to be correct based on our present knowledge but does not purport to be complete. For research use only by trained personnel. The burden of safe use of this material rests entirely with the user. LC Laboratories disclaims all liability

Reviewed: July 1, 2019