

Epothilone B, Synthetic: sc-203944



The Power to Question

MATERIAL SAFETY DATA SHEET

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

Product name	: Epothilone B, Synthetic	Catalog #	: sc-203944
Chemical formula	: $C_{27}H_{41}NO_6S$	Supplier	: Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800
Synonym	: EpoB	Emergency	: ChemWatch Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. Composition / information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
Epothilone B, Synthetic		Not available.	T	R24/25, R37/38, R41, R60

3. Hazards identification

Physical/chemical hazards : Not applicable.

Human health hazards : WARNING!
CAN CAUSE HERITABLE GENETIC EFFECTS.
HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.
POSSIBLE BIRTH DEFECT HAZARD.
MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA.
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: BLOOD, LUNGS, HEART,
PERIPHERAL NERVOUS SYSTEM, GASTROINTESTINAL TRACT, CARDIOVASCULAR
SYSTEM, RESPIRATORY TRACT, EYES, MUSCLE TISSUE.

4. 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** : If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- 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

- Inhalation** : Hazardous in case of inhalation (lung irritant).
- Ingestion** : Very hazardous in case of ingestion. May be fatal if swallowed
- Skin Contact** : Very hazardous in case of skin contact (permeator). Hazardous in case of skin contact (irritant). Severe over-exposure can result in death. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
- Eye Contact** : Hazardous in case of eye contact (irritant).

Aggravating conditions : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

5. 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.

Hazardous thermal (de)composition products : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...).

Special fire-fighting procedures : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters : Be sure to use an approved/certified respirator or equivalent.

6. Accidental release measures

- Personal precautions** : 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.
- Large Spill and Leak** : Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

7. Handling and storage

- Handling** : Keep locked up. 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 ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. 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 (-4°F).
- Packaging materials**
- Recommended use** : Use original container.

8. Exposure controls/personal protection

- 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, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
Epothilone B, Synthetic	Not available.

Personal protective equipment

- Respiratory system** : Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
- Skin and body** : Lab coat.
- Hands** : Gloves.
- Eyes** : Splash goggles.
- Protective Clothing (Pictograms)** :



9. Physical and chemical properties

- Physical state** : Solid.
- Color** : Off-white.
- Molecular Weight** : 507.7 g/mole
- 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.

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : Sensitive to light.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...).

11. Toxicological information

- RTECS #** : Not available.
- Local effects**
- Skin irritation** : Hazardous in case of skin contact (irritant).
- Acute toxicity** : LD₅₀: Not available.
LC₅₀: Not available.

Chronic toxicity	: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Other Toxic Effects on Humans	: Toxic for humans or animal life. Very hazardous in case of skin contact (permeator), of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). Laboratory experiments have shown mutagenic effects. May cause congenital malformations in the foetus. Will cause serious damage to the eyes. Exposure can cause nausea, headache and vomiting. Material is irritating to mucous membranes and upper respiratory tract. To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.
Specific effects	
Carcinogenic effects	: Not available.
Mutagenic effects	: Classified 1 by European Union. Classified POSSIBLE for human.
Reproduction toxicity	: Not available.
Teratogenic effects	: Classified POSSIBLE for human.

12. Ecological information

Ecotoxicity	: Not available.
Toxicity of the Products of Biodegradation	: The products of degradation are less toxic than the product itself.

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

UN number	: UN2811	Sea	
Land - Road/Railway		Proper shipping name	: Toxic solid, organic, n.o.s.*
Proper shipping name	: Toxic solid, organic, n.o.s.*	IMDG Class	: CLASS 6.1: Toxic substance.
ADR/RID Class	: CLASS 6.1: Toxic substance.	Packing Group	: II
Packing Group	: II	IMDG label	: 
ADR/RID label	: 		
Air		IATA-DGR Class	: CLASS 6.1: Toxic substance.
Proper shipping name	: Toxic solid, organic, n.o.s.*	Packing Group	: II
UN/ID Number	: UN2811	IATA label	: 
		Special Provisions for Transport	: Not available.

15. Regulatory information

EU Regulations

Hazard symbol(s)	: 
Classification	: Toxic
Risk Phrases	: R24/25- Toxic in contact with skin and if swallowed. R37/38- Irritating to respiratory system and skin. R41- Risk of serious damage to eyes. R46- May cause heritable genetic damage. R60- May impair fertility.
Safety Phrases	: S22- Do not breathe dust. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Contains	: - Epothilone B, Synthetic

U.S. Federal Regulations

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

HCS Classification

: CLASS: Toxic.
CLASS: Irritating substance.
CLASS: Target organ effects.

State Regulations

:

WHMIS (Canada)

: CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
CLASS D-2B: Material causing other toxic effects (TOXIC).

No products were found.

16. Other information

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

Health	*	2
Fire Hazard		1
Reactivity		0
Personal Protection		E

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



Notice to Reader

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

12/14/2010