SAFETY DATA SHEET



Number

Customer Number

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

Paclitaxel, Taxus sp. **Product name**

Catalog #

: 580555

Chemical formula : C₄₇H₅₁NO₁₄ Supplier

Manufactured by EMD Biosciences, Inc. 10394 Pacific Center Court

San Diego, CA 92121 (858)450-5558/(800)854-3417

FAX: (858)453-3552

: Baccatin III N-Benzyl-beta-phenylisoserine Ester Synonym

> **Emergency** telephone number

Call Chemtrec®

(800)424-9300 (within U.S.A.) (703)527-3887 (outside U.S.A.)

Composition / information on ingredients

Substance/Preparation

Substance

Chemical name* CAS No. **EC Number** Symbol R-Phrases 33069-62-4 Baccatin III N-Benzyl-beta-phenylisoserine Ester Not available Τ R37/38, R41, R46, R60

Hazards identification 3.

Physical/chemical hazards

: Not applicable.

Human health hazards

WARNING

BIRTH DEFECT HAZARD. CAN CAUSE BIRTH DEFECTS. CAUSES EYE IRRITATION.

MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION.

MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: REPRODUCTIVE SYSTEM,

EYES

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

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

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 immediately.

Effects and symptoms

Inhalation

: Hazardous in case of inhalation (lung irritant).

Skin Contact

: Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eye Contact

Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Aggravating conditions

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

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5. Fire-fighting measures

Flammability of the Product

Extinguishing Media

Protection of fire-fighters

: May be combustible at high temperature.

Suitable

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

products

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

Special fire-fighting procedures

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

: Be sure to use an approved/certified respirator or equivalent.

Accidental release measures 6.

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. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill and Leak

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary systen

7. Handling and storage

Handling

Storage

- : 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 breathe dust. Avoid contact with skin. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible.
- 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.
- Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Hygiene measures Ingredient Name

Occupational Exposure Limits

1) Paclitaxel, Taxus sp.

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

Hands

- Lab coat Gloves.
- Eyes
- Splash goggles

Protective Clothing (Pictograms)







Physical and chemical properties

Physical state

: Solid. (Solid powder.)

White.

Molecular Weight

853.9 g/mole

Melting Point Solubility

213 to 216°C (415.4 to 420.8°F)

: Easily soluble in methanol.

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.

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10. Stability and reactivity

Stability : The product is stable.

: Sensitive to light. Conditions to avoid

: These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...). **Hazardous Decomposition Products**

11. Toxicological information

RTECS # : DA8340700

Local effects

Chronic toxicity

Skin irritation : Hazardous in case of skin contact (irritant).

: LD50: Not available. Acute toxicity LC50: Not available

: 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

: Not available.

Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

May cause congenital malformations in the foetus. Laboratory experiments have shown mutagenic

Will cause serious damage to the eyes. Material is irritating to mucous membranes and upper respiratory

tract.

Specific effects

Carcinogenic effects : Not available

Classified POSSIBLE for human. **Mutagenic effects**

Reproduction toxicity Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN].

Teratogenic effects Classified POSSIBLE for human.

Ecological information

: Not available **Ecotoxicity**

Toxicity of the Products of : The product itself and its products of degradation are not toxic.

Biodegradation

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.

Transport information

International transport regulations

Land - Road/Railway

ADR/RID Class : Not controlled under ADR (Europe).

Sea

<u>Air</u>

IMDG Class : Not controlled under IMDG.

IATA-DGR Class : Not controlled under IATA.

Special Provisions for

Transport

Not applicable.

15. Regulatory information

EU Regulations

Hazard symbol(s)



Classification : Toxic

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Risk Phrases

: 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

U.S. Federal Regulations

: - Paclitaxel, Taxus sp.

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: Irritating substance. CLASS: Target organ effects.

State Regulations

: California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Paclitaxel, *Taxus* sp.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Paclitaxel, *Taxus* sp.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Paclitaxel *Taxus* sp.

WHMIS (Canada)

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

No products were found.

16. Other information

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



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



Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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