

Material Safety Data Sheet (MSDS) for Docetaxel



Cell Signaling
TECHNOLOGY®

I. Identification:

Product name: Docetaxel
Product Catalog: 9886
Manufacturer Supplier: Cell Signaling Technology
 3 Trask Lane
 Danvers, MA 01923 USA
 978-867-2300 TEL
 978-867-2400 FAX
 978-578-6737 EMERGENCY TEL

II. Composition/Information:

Substance Name: Docetaxel
Synonyms: Taxotere
CAS#: 114977-28-5
Mol. Wt: 807.88
Mol. Formula: $C_{43}H_{53}NO_{14}$

III. Hazard Identification:

Emergency Overview: May be an irritant; may cause irritation to eyes, skin, mucous membranes.

Target Organs: Bone Marrow

NFPA Rating: Health: 1 Flammability: 0 Reactivity: 0

IV. First Aid Measures:

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Get medical attention.

Skin exposure: In case of contact, immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing. Wash clothing before reuse.

Eye exposure: In case of contact with eyes, immediately flush eyes with water for at least 15 minutes. Get medical attention.

V. Fire Fighting Measures:

Flash Point: Data not available.

Autoignition Temperature: Data not available.

Explosion: Data not available.

Fire extinguishing media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Firefighting: Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes. May emit toxic fumes under fire conditions.

VI. Accidental Release Measures: Wear appropriate personal protective equipment. Sweep up material and avoid raising dust. Transfer to a closed chemical waste container for disposal. Wash spill site after material has been picked up for disposal.

VII. Handling And Storage:

Storage: Store in tightly closed container at -20°C.

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

VIII. Exposure Controls/Personal:

Ventilation System: A system of local and/or general exhaust is required.

Skin Protection: Wear compatible chemical resistant gloves and protective clothing.

Eye protection: Wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

IX. Physical And Chemical Properties

Appearance: white crystalline powder
Odor: none
pH: data not available
Melting Point: 175-195°C
Boiling Point: data not available
Freezing Point: data not available
Volatile Organic Compounds: no
Solubility: not soluble in water, soluble in DMSO

X. Stability and Reactivity:

Stability: Avoid acids and bases. Protect from light and heat.

Hazardous Decomposition under fire conditions: May produce toxic gases such as carbon monoxide, carbon dioxide, nitrogen oxides.

XI. Toxicological Information:

May be an irritant. To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

XII. Ecological Information: Data not available.

XIII. Disposal Considerations: Dispose of in accordance with federal, state, local environmental regulations.

XIV. Transport Information:

DOT: Proper Shipping Name: This substance is considered non-hazardous for transport.

IATA: Proper Shipping Name: This substance is considered non-hazardous for air transport.

XV. Regulatory Information:

Risk/Safety Phrases:

May be irritating to eyes and respiratory system.

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident, flush eyes or skin with copious amounts of water; remove contaminated clothing and shoes; call a physician.

XVI. Other Information:

This compound is sold only for research use only. It is not for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.