

## **Section 1 - Product and Company Identification**

### **1.1 Product identifiers**

Product name: **Brefeldin A**

Catalog code: inh-bfa, inh-bfa-2

CAS number: 20350-15-6

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified use: Laboratory chemicals

Disclaimer: All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

### **1.3 Details of the supplier of the safety data sheet**

Company:

InvivoGen US, 10515 Vista Sorrento Parkway  
San Diego, California 92121, USA  
(+1) 888 457 5873

InvivoGen Europe, 5 rue Jean Rodier  
31400 Toulouse, France  
+33 (0) 5 62 71 69 39

InvivoGen Asia, Unit 307, 3F,  
8W Phase 2 Hong Kong Science Park,  
Pak Shek Kok, Hong Kong  
+852 3622 3480

**1.4 Emergency telephone number:** ORFILA (INRS): +33 (0)1 45 42 59 59

## **Section 2 – Hazards Identification**

### **2.1 Classification of substance according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] and GHS**

Acute toxicity, Oral (Category 3), H301

### **2.2 Label elements according to Regulation (EC) No 1272/2008 [CLP] and GHS**

Pictogram



Signal word: Danger

Hazard statement

H301: Toxic if swallowed.

Precautionary statements

P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or a doctor/physician.  
P330: Rinse mouth.

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

**2.3 Other hazards** - none

### **Section 3 – Composition/Information on Ingredient**

#### **3.1 Substances**

Synonyms: Brefeldin A, Decumbin, Ascotoxin,  $\gamma$ ,4-Dihydroxy-2-(6-hydroxy-1-heptenyl)-4-cyclopentanecrotonic acid  $\lambda$ lactone  
Cyanoin, BFA

Formula:  $C_{16}H_{24}O_4$

Molecular weight: 280.36 g/mol

CAS number: 280.36 g/mol

### **Section 4 – First Aid Measures**

#### **4.1 Description of first aid measures**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, remove to fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash skin with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### **4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

### **Section 5 – Fire Fighting Measures**

#### **5.1 Extinguishing media**

**Suitable extinguishing media:** Use water spray, carbon dioxide, dry chemical powder or appropriate foam.

#### **5.2 Specific hazards arising from the chemical**

No data available

#### **5.3 Special Firefighting Procedures**

Wear self-contained breathing apparatus for firefighting if necessary.

### **Section 6 – Accidental Release Measures**

#### **6.1 Personal precautions, protective equipment and emergency**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

For personal protection see section 8.

#### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### **6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

For disposal see section 13.

**Section 7 – Handling and Storage****7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**Section 8 – Exposure Controls/PPE****8.1 Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****Appropriate engineering controls**

General industrial hygiene practice.

**Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) 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.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

**Section 9 – Physical/Chemical Properties****9.1 Information on basic physical and chemical properties****Appearance**

Physical state: Solid

Color: White

**Safety Data**

Odor: No data available  
Odor threshold: No data available  
pH: No data available  
Melting point/freezing point: No data available  
Initial boiling point and boiling range: No data available  
Flash point: No data available  
Evaporation rate: No data available  
Flammability: No data available  
Upper/lower flammability or explosive limits: No data available  
Vapor pressure: No data available  
Relative density: No data available  
Solubility in water: No data available  
Partition coefficient (n-octanol/water): No data available  
Autoignition temperature: No data available  
Decomposition temperature: No data available  
Viscosity: No data available

**9.2 Other safety information**

no data available

**Section 10 – Stability and Reactivity**

**10.1 Reactivity:** No data available  
**10.2 Chemical stability:** Stable under recommended storage conditions.  
**10.3 Possibility of hazardous reactions:** No data available  
**10.4 Conditions to avoid:** No data available  
**10.5 Incompatible materials:** No data available  
**10.6 Hazardous decomposition products:** No data available  
**In case of fire:** See section 5

**Section 11 – Toxicological Information****11.1 Information on toxicological effects****Acute toxicity:**

Oral LD50: 275 mg/kg in rats.

Reference: Toxicants of the genus *penicillium*. D. Abramson. In: Handbook of Plant and Fungal Toxicants. Edited by J. P. Felix D'Mello (Scottish Agricultural College, Edinburgh, Scotland). CRC Press, Boca Raton, FL. 1997.

Inhalation LC50: No data available  
Dermal LD50: No data available  
Other information on acute toxicity: No data available  
**Skin corrosion/irritation:** No data available  
**Serious eye damage/irritation:** No data available  
**Respiratory or skin sensitization:** No data available  
**Germ cell mutagenicity:** No data available  
**Carcinogenicity:** No data available  
**Reproductive toxicity:** No data available  
**Additional information:** No data available

**Section 12 – Ecological Information**

**12.1 Toxicity:** No data available  
**12.2 Persistence and degradability:** No data available  
**12.3 Bioaccumulative potential:** No data available  
**12.4 Mobility in soil:** No data available

**12.5 Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required or not conducted.

**12.6 Other adverse effects:** No data available

## **Section 13 – Disposal Considerations**

### **13.1 Waste treatment methods**

**Product:** Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.

**Contaminated Packaging:** Dispose of as unused product.

## **Section 14 – Transport Information**

### **14.1 UN number**

ADR/RID: 2811                      DOT (US): 2811                      IMDG: 2811                      IATA: 2811

### **14.2 UN proper shipping name**

Toxic solids, organic, n.o.s. (Brefeldin A)

### **14.3 Transport hazard class(es)**

ADR/RID: 6.1                      DOT (US): 6.1                      IMDG: 6.1                      IATA: 6.1

### **14.4 Packaging group**

ADR/RID: III                      DOT (US): III                      IMDG: III                      IATA: III

### **14.5 Environmental hazards**

ADR/RID: no                      DOT (US): no                      IMDG Marine pollutant: no                      IATA: no

### **14.6 Special precautions for user**

no data available

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

## **Section 15 – Regulatory Information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **15.2 Chemical Safety Assessment**

no data available

## **Section 16 – Other Information**

The information contained in this SDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). InvivoGen provides this information in good faith and is based on our present knowledge. This SDS is provided without warranty of any kind. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed.