Material Safety Data Sheet (MSDS) for Serine/Threonine Phosphatase Inhibitor (Calyculin A)



I. Identification

Product name: Serine/Threonine Phosphatase Inhibitor (Calyculin A)I

Chemical name: Calyculin A CAS number: 101932-71-2 Empirical formula: $C_{50}H_{81}N_4O_{15}$ P Molecular weight: 1009.18 Chemical family: Polyene phosphate

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. Physical Data

Boiling point: N/A (solid compound)
Specific gravity: N/A (solid compound)
Vapor density: N/A (solid compound)
Percent volatile by volume: N/A (solid compound)
Freezing point: Solid at working temperatures
Vapor pressure at 20°C: N/A (solid compound)

Solubility in water: Not soluble

Organic Solvents: Soluble in DMSO or ethanol.

Appearance: Clear or whitish film adhering to inside of tube

III. Ingredients

Material: Supplied as pure compound

IV. Fire and Explosion Hazard Data

Flash point: N/A (solid compound) Auto-ignition temperature: N/A Danger of explosion: None

Extinguishing media: Compound not to be used above milligram amounts; fire extin-

guishing media should match other materials in fire.

Special fire fighting procedures: If involved in fire, don NIOSH/MSHA-approved self-contained breathing apparatus that is flame/chemical resistant.

Unusual fire and explosion hazards: May emit toxic fumes under fire conditions, (i.e. carbon monoxide and carbon dioxide).

V. Health Hazard Data: Special Hazard

TUMOR PROMOTER. Gloves and mask should be worn when using this compound. Care must be taken to prevent contact thruogh all routes of exposure.

Hazard Description: may be an irritant; may cause irritation to eyes, skin, mucous membranes. Information pertaining to particular dangers for man and enviornment:

HMIS Ratings: Health = 1 Flammability = 0 Reactivity = 0

Chemical listed as carcinogen or potential carcinogen: No

Signs and Symptoms of Exposure

Acute effects of overexposure—None known

Acute Overexposure

Acute effects of swallowing Not known Acute effects of skin absorption Not known

Acute effects of inhalation Not known; presumed to be very toxic

Acute effects of skin contact Not known

Acute effects of eye contact

Not known; presumed to be very toxic

Chronic effects of overexposure: Effects in humans not known; may be a carcinogen or tumor promoter

Emergency and First Aid Procedures

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

 $\label{lem:after swallowing:} \textbf{After swallowing:} \ \textbf{If swallowed, wash out mouth with copious amounts of water; call}$

physician

After Skin Contact: Flush with copious amounts of water; remove contaminated clothing

and shoes; call a physician.

After Eye Contact: Flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician.

VI. Reactivity Data

 Stability/conditions to avoid:
 Protect from light and heat.

 Incompatibility/Materials to avoid:
 Avoid acids an bases.

 Combustion/Decomposition products:
 Undetermined

VII. Spill or Leak Procedures

Accidental Release Meassures:

Saftey Precautions: Cordon off spill area, wear self contained breathing apparatus, protective clothing, and heavy rubber gloves.

Cleaning: Absorb solutions with finely-powdered liquid binding material (universal binders);

decontaminate surfaces and equipment by scrubbing with alcohol.

Waste disposal method: Dispose of as cancer suspect agent. Observe all federal, state, and local regulations when storing or disposing of this substance. For assistance, contact the district director of the Environmental Protection Agency.

Precautions

Safety shower and eye bath.
Do not get in eyes, on skin, or on clothing.
Wash thoroughly after handling.
Observe all federal, state and local laws.

VIII. Special Protection Information

Respiratory protection: Do not work with this compound in powder or aerosol form.

Ventilation: Do not work with this compound in powder or aerosol form.

Protective equipment: Wear suitable protective clothing, chemical resistant gloves and lab safety glasses.

IX. Special Precautions

Precautions to be taken in handling and storage: This compound is sold only for research use by scientists familiar with the toxicology of organic chemicals and tumor promoters and who are well trained in good laboratory habits, such as keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory.

This compound is sold only in milligram quantities for use in extremely dilute solutions in biological research. No other use is intended and any other use involves substantial hazards.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide for experienced personnel. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.

Revised: April 2004

page 1 of