

Safety Data Sheet

Safety Data Sheet - LC Laboratories Revision Date: July 1, 2019

SECTION 1. IDENTIFICATION:

Trade name: Phorbol 12-Myristate 13-Acetate

Product Number: [P-1680](#)

Manufacturer/Supplier:

LC Laboratories

165 New Boston Street

Woburn, MA 01801 USA

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SECTION 2. HAZARD(S) IDENTIFICATION:

Hazard Description: Caution! Tumor promoter

Substance Class Identifier: Tumorigen; Mutagen; Human Data; Primary Irritant; Reproductive Effector

Potent irritant; causes irritation to eyes, skin, mucous membranes

May be harmful if swallowed, inhaled, or absorbed through the skin

Laboratory experiments on animals have reported the development of tumors

Mutagenic for mammalian somatic cells and for bacteria and/or yeast

Signal Word: Warning

GHS Hazard Statements:

H302+312+332 - Harmful if swallowed, in contact with skin or if inhaled

GHS Precautionary Statements:

P2562 - Do not get in eyes, on skin or on clothing

WARNING: For Laboratory Research Use Only



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: (1*a*R,1*b*S,4*a*R,7*a*S,7*b*S,8*R*,9*R*,9*a*S)-9*a*-(Acetyloxy)-1*a*,1*b*,4,4*a*,5,7*a*,7*b*,8,9,9*a*-decahydro-4*a*,7*b*-dihydroxy-3-(hydroxymethyl)-1,1,6,8-tetramethyl-5-oxo-1*H*-cyclopropa[3,4]benz[1,2-*e*]azulen-9-yl tetradecanoate

Synonyms: PMA, 12-O-Tetradecanoylphorbol-13-acetate, TPA

Hazardous Ingredient: Phorbol 12-Myristate 13-Acetate

CAS Registry Number: 16561-29-8

Molecular Weight: 616.83

Molecular Formula: C₃₆H₅₆O₈

SECTION 4. FIRST-AID MEASURES:

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

After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a physician; under care of a physician, prompt application of steroidal antiinflammatory creams may reduce or prevent skin irritation

After eye contact: flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician; under care of a physician, application of steroidal antiinflammatory creams may reduce or prevent eye irritation

After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician; under care of a physician, application of steroid antiinflammatory creams may reduce irritation

SECTION 5. FIRE-FIGHTING MEASURES:

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder or foam

Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Unusual fire hazard: may emit toxic fumes under fire conditions

SECTION 6. ACCIDENTAL RELEASE MEASURES:

Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective clothing and heavy rubber gloves

Measures for cleaning/collecting: absorb solutions with finely- powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol to remove bulk material followed by treatment of surfaces and equipment with 5% hypochlorite solution; dispose of contaminated material according to Section 13

SECTION 7. HANDLING AND STORAGE:

Information for safe handling: avoid contact with skin, eyes and clothing; material may be an irritant

Storage: store solid and solutions at -20 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Personal protective equipment as follows:

Breathing equipment: NIOSH/MSHA-approved respirator

Protection of hands: handle with Nitrile rubber gloves with minimum thickness of 0.11 mm (4.3 mil). This recommendation should not be interpreted as offering an approval for any specific use conditions. Please review this recommendation with a safety officer to evaluate if it is appropriate for the anticipated use.

Eye protection: chemical safety goggles

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Form: amorphous solid in the form of a film or foam

Color: colorless

Odor: none

Melting point/Melting range: not determined

Danger of explosion: none

Solubility in / Miscibility with water: not soluble

Solvent content:

Organic solvents: soluble in DMSO and ethanol

SECTION 10. STABILITY AND REACTIVITY:

Stability: avoid acids and bases

Thermal decomposition / conditions to be avoided: protect from light and heat

Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide and carbon dioxide

SECTION 11. TOXICOLOGICAL INFORMATION:

RTECS #: QH4377000

Acute toxicity: intraperitoneal toxicity (LD): >1 mg/kg (mouse); intravenous toxicity (LD50): 309 µg/kg (mouse)

Primary irritant effect:

On the skin: causes skin irritation

On the eye: causes eye irritation

Inhalation: irritating to the respiratory tract; may be harmful if inhaled

Ingestion: may be harmful if swallowed; may cause irritation of the digestive tract

SECTION 12. ECOLOGICAL INFORMATION:

General notes: no data available

Treat as potentially toxic if released into the environment

SECTION 13. DISPOSAL CONSIDERATIONS:

Dispose of in accordance with prevailing country, federal, state and local regulations

SECTION 14. TRANSPORT INFORMATION:

DOT:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

IATA class:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

SECTION 15. REGULATORY INFORMATION:

Code letter and hazard designation of product:

Xi: Irritant

EU Risk And Safety phrases:

S22: Do not breathe dust

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S27: Take off immediately all contaminated clothing

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

R21: Harmful in contact with skin

R36/37/38: Irritating to eyes, respiratory system and skin

SECTION 16. OTHER INFORMATION:

The above information is believed to be correct based on our present knowledge but does not purport to be complete. For research use only by trained personnel. The burden of safe use of this material rests entirely with the user. LC Laboratories disclaims all liability

Reviewed: July 1, 2019