SAFETY DATA SHEET



Customer Number

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

Product name : Parthenolide, Tanacetum parthenium

Catalog #

: 512732

Chemical formula : C₁₅H₂₀O₃

Order

Number

Supplier

: Manufactured by EMD Biosciences, Inc.

10394 Pacific Center Court San Diego, CA 92121 (858)450-5558/(800)854-3417

FAX: (858)453-3552

Synonym : Not available.

Emergency telephone number

Call Chemtrec®

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

2. Composition / information on ingredients

Substance/Preparation : Substance

Chemical name*

CAS No.
1) Parthenolide, Tanacetum parthenium

CAS No.
20554-84-1

Not available.

Symbol
R-Phrases
R20/21/22, R40, R42/43

3. Hazards identification

Physical/chemical hazards

: Not applicable.

Human health hazards

WARNING!

MAY BE HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.

MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION.

MAY CAUSE HERITABLE GENETIC EFFECTS BASED ON IN VITRO DATA.

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 for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get modical 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.

Effects and symptoms

Inhalation : Hazardous in case of inhalation (lung sensitizer).

Ingestion : Hazardous in case of ingestion.

Skin Contact : Hazardous in case of skin contact (sensitizer, permeator).

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

: May be combustible at high temperature.

Extinguishing Media

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).

Special fire-fighting procedures

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

Protection of fire-fighters

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

Accidental release measures

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 system

Handling and storage

Handling

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 ingest. Do not breathe dust. Avoid contact with skin. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage

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.

Exposure controls/personal protection 8.

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.

Hygiene measures

Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingr<u>edient Name</u>

Occupational Exposure Limits

1) Parthenolide, Tanacetum parthenium

Not available.

Personal protective equipment

Respiratory system

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

Skin and body

Lab coat.

Hands

Gloves.

Eyes

Safety glasses.

Protective Clothing (Pictograms)



Physical and chemical properties

Physical state

Solid.

Color

White.

Molecular Weight

248.3 g/mole

Solubility Flash point Not available 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.

Conditions to avoid Sensitive to light.

Reactive with oxidizing agents. Materials to avoid

Hazardous Decomposition Products: These products are carbon oxides (CO, CO2).

Toxicological information

RTECS# : LY4220000

Local effects

: Not available. **Skin irritation**

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

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 Chronic toxicity

one or many human organs.

Other Toxic Effects on

Humans

Not available.

Hazardous in case of skin contact (sensitizer, permeator), of ingestion, of inhalation (lung sensitizer).

In vitro studies in mammal cells have shown mutagenic action.

Not available.

Carcinogenic effects Not available.

Classified POSSIBLE for human. Mutagenic for mammalian germ and somatic cells based on in vitro studies. **Mutagenic effects**

Reproduction toxicity Not available **Teratogenic effects** : Not available

Ecological information 12.

Ecotoxicity : Not available.

Toxicity of the Products of **Biodegradation**

: The products of degradation are less toxic than the product itself.

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

IMDG Class Not controlled under IMDG.

IATA-DGR Class Not controlled under IATA.

Special Provisions for Not applicable.

Transport

<u>Air</u>

Regulatory information

EU Regulations

Hazard symbol(s)



Classification : Harmful

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Risk Phrases : R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R68- Possible risks of irreversible effects.

R42/43- May cause sensitization by inhalation and skin contact.

Safety Phrases : S22- Do not breathe dust.

S36- Wear suitable protective clothing.

Contains : - Parthenolide, Tanacetum parthenium

U.S. Federal Regulations : 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.

: CLASS: Sensitizing substance.

State Regulations :

HCS Classification

<u>WHMIS (Canada)</u> : Not controlled under WHMIS (Canada).

No products were found.

16. Other information

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



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



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	Date of issue	
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