

MATERIAL SAFETY DATA SHEET

I IDENTIFICATION

PRODUCT: **Domoic Acid**

MANUFACTURER:

BioVectra del
16 McCarville St.
West Royalty Industrial Park
Charlottesville, P.E.I.
C1E 2A6
(902)566-1396

EMERGENCY TELEPHONE NO.: CANUTEC 613-996-6666

CHEMICAL NAME: (2S,3S,4S)-2-Carboxy-4-[1-Methyl-5(R)-Carboxy-1(Z),3 (E)-Hexadienyl]-Pyrrolidine-3-Acetic Acid

CATALOGUE NUMBER: 1380

CHEMICAL FAMILY: Neuro-Excitatory Amino Acid; Glutamate Agonist

MOLECULAR FORMULA: C₁₃H₂₁N₁O₆

MOLECULAR WEIGHT: 311

WHMIS CLASSIFICATION: Class D, Division 1, Subdivision B. Toxic Material.

TSCA STATUS: This material is sold for research and development use only. Use in applications other than research and development may require prior approval from the EPA or inclusion on the TSCA inventory.

PRODUCT USE: For laboratory use only. Not for drug use.

II HAZARDOUS INGREDIENTS

(2S,3S,4S)-2-Carboxy-4-[1-Methyl-5(R)-Carboxy-1(Z),3 (E)-Hexadienyl]-Pyrrolidine-3-Acetic Acid >99%
CAS Registry No.: 14277-97-5

III TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE

Routes of Entry Skin Contact [x] Eye Contact [x]

Skin Absorption [x] Inhalation [x] Ingestion [x]

EYES: Not available.

SKIN: May be fatal if absorbed through the skin

INHALATION: May cause irritation, may be harmful. Avoid inhalation.

INGESTION: Toxic.

CHRONIC HEALTH HAZARDS: Unknown. To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY: No data available

SYNERGISTIC PRODUCTS: Not available

SENSITIZATION TO PRODUCT: Not available

IRRITANCY OF PRODUCT: Not available

EXPOSURE LIMITS: Not available

LDLO: Oral mouse 68 mg/Kg

LD50: IP mouse 3.6 mg/kg

DOMOIC ACID IS A GLUTAMATE AGONIST WITH NEUROTOXIC EFFECTS IF INGESTED. AVOID INHALATION OF DUST OR PHYSICAL CONTACT WHEN WEIGHING OR HANDLING.

IV FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes and get medical attention.

SKIN: In case of contact, immediately flush area with plenty of water.

INHALATION: If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and obtain medical attention.

INGESTION: If ingested, drink plenty of fluids and obtain immediate medical attention.

V FIRE AND EXPLOSION HAZARDS

FLAMMABLE: No

FLASH POINT: Not applicable

FLAMMABLE LIMITS (% in air)

Lower: Not applicable

Upper: Not applicable

EXTINGUISHING MEDIA: Water spray, dry chemical

AUTOIGNITION TEMPERATURE: Not available

HAZARDOUS COMBUSTION PRODUCTS: Not available

EXPLOSION DATA: Sensitivity to mechanical impact, not available; Sensitivity to static discharge, not available.

VI REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Not available.

HAZARDOUS DECOMPOSITION PRODUCTS:
Not available

HAZARDOUS POLYMERIZATION: Will not occur.

VII PHYSICAL DATA

PHYSICAL STATE: Solid

APPEARANCE AND ODOUR: White powder or off-white crystals

ODOUR THRESHOLD: Not available

MELTING POINT: 213-217°C

BOILING POINT: Not available

SPECIFIC GRAVITY: Not available

VAPOUR PRESSURE: Not available

VAPOUR DENSITY: Not available

WATER SOLUBILITY: Slightly soluble (8 mg/mL)

EVAPORATION RATE: Not available

pH: 3

COEFFICIENT OF OIL/WATER: Not available

III PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Lab coat, safety goggles, and rubber gloves.

VENTILATION: General ventilation

RESPIRATORY PROTECTION: Standard chemical dust protection, ie. appropriate OSHA/MSHA approved respirator.

LEAK AND SPILL PROCEDURES: Absorb material with paper towel. Wash area with soap and water.

WASTE DISPOSAL: May be disposed of in public sewage system in accordance with federal, provincial, state and local regulations.

STORAGE REQUIREMENTS: $-15 \pm 5^{\circ}\text{C}$

SPECIAL SHIPPING INFORMATION: Toxic Solid Organic N.O.S. TDG Class 6, Division 1, Packing Group III

LABEL PRECAUTIONARY STATEMENTS: Caution: Toxic if swallowed. Avoid eye and skin contact. Avoid inhalation and ingestion.

IX PREPARATION OF MSDS

PREPARED BY: Jeremy Stiles
DATE: 4 January 2001
Phone Number: 902-566-1396

**n.av. not available n.ap. not applicable*

The information provided on this Material Safety Data Sheet is provided in the interest of promoting safe handling of the material. While this information is believed to be correct, DCL makes no warranty in respect to any of the information disclosed. Observe all federal, provincial, state and local laws concerning health and pollution.

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