Material Safety Data Sheet

Section 1 - Product and Company Information

Product Name: Calmodulin from bovine tests
Product Number: P1431
Brand: Sigma Chemical
Company: Sigma-Aldrich
Street Address: 3650 Spruce Street, SAINT LOUIS, MO 63103 US
Technical Phone: 800-325-5322
Fax: 800-325-5352
Emergency Phone: 314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name: PHOSPHODIESTERASE 3.5 CYCLONUCLEOTIDE ACTIVATOR
CAS #: 77107-46-1
SARA 313: No
EC no: Annex I Index Number

Formula: Synonyms:

Section 3 - Hazards Identification

Emergency Overview: Caution: Avoid contact and inhalation.
HMIS Rating:
Health: 0 Flammability: 0 Reactivity: 0
NFPA Rating:
Health: 0 Flammability: 0 Reactivity: 0
For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A
Extinguishing Media:
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Firefighting:
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):
Wear protective equipment.
Methods for Cleaning Up:
Spilled material should be carefully wiped up or moistened with water and removed.

Section 7 - Handling and Storage

Handling:
User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage:
Suitable: Keep tightly closed. Store away from heat. Store at -20°C.

Section 8 - Exposure Controls / PPE

Engineering Controls:
Mechanical exhausting required. Safety shower and eye bath.
Personal Protective Equipment:
Other: Wear appropriate government approved respirators, chemical resistant gloves, safety goggles, other protective clothing.
General Hygiene Measures:
Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance:
Physical State: Solid
Molecular Weight: N/A
pH: N/A
BP/Boiling Point Range: N/A
MP/Melting Point Range: N/A

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Sigma-Aldrich Corporation
www.sigmaaldrich.com
Section 10 - Stability and Reactivity

Stability
Stable
Stable

Hazardous Decomposition Products
Hazardous Decomposition Products
Nature of decomposition products not known

Hazardous Polymerization
Hazardous Polymerization
Will not occur

Section 11 - Toxicological Information

Route of Exposure
Skin Contact
May cause skin irritation.

Skin Absorption
May be harmful if absorbed through the skin.

Eye Contact
May cause eye irritation.

Inhalation
May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Sensitization
Sensitization
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Conditions Aggravated by Exposure
The toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport
This substance is considered to be nonhazardous for transport.

IATA
Non-Hazardous for Air Transport
Non-hazardous for air transport.

Section 15 - Regulatory Information

US Classification and Label Text
US Statements
Caution: Avoid contact and inhalation.

United States Regulatory Information
SARA Listed: No

Canada Regulatory Information
WHMIS Classification
This product has been classified in accordance with the hazard criteria of the CPIC, and the MSDS contains all the information required by the CPIC.
DSL: No
NDSL: No

Section 16 - Other Information

Disclaimer
For R&D use only. Not for drug, household or other uses.

Warranty
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc. shall not be held liable for any damage resulting from handling or form contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2008 Sigma-Aldrich Co. Licenses granted to make unlimited paper copies for internal use only.