

## MATERIAL SAFETY DATA SHEET

Date Printed: 05/21/2009  
Date Updated: 05/21/2009  
Version 1.5

## Section 1 - Product and Company Information

Product Name PELARGONIDIN CHLORIDE  
 Product Number P1659  
 Brand ALDRICH  
 Company Sigma-Aldrich Canada, Ltd  
 Address 2149 Winston Park Drive  
 Oakville ON L6H 6J8 CA  
 Technical Phone: 9058299500  
 Fax: 9058299292  
 Emergency Phone: 800-424-9300

## Section 2 - Composition/Information on Ingredient

Substance Name CAS # SARA 313  
 PELARGONIDIN CHLORIDE 134-04-3 No  
 Formula C15H11ClO5  
 Chemical Family Bioactive peptide.

## Section 3 - Hazards Identification

EMERGENCY OVERVIEW  
 Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

HMS RATING  
 HEALTH: 3  
 FLAMMABILITY: 0  
 REACTIVITY: 0

NFPA RATING  
 HEALTH: 3  
 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.

## EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## Section 5 - Fire Fighting Measures

FLASH POINT  
N/A

AUTOIGNITION TEMP  
N/A

FLAMMABILITY  
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 TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

## PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear protective equipment.

## METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

## HANDLING

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

## STORAGE

Suitable: Keep tightly closed.  
Store at 2-8°C

## Section 8 - Exposure Controls / PPE

## ENGINEERING CONTROLS

Mechanical exhaust required.

## PERSONAL PROTECTIVE EQUIPMENT

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

## GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

ALDRICH - P1659

www.sigma-aldrich.com

Page 2

## Section 9 - Physical/Chemical Properties

Appearance Form: Powder

Property Value At Temperature or Pressure

Molecular Weight 306.7 AMU  
 pH N/A  
 BP/BP Range N/A  
 MP/MP Range N/A  
 Freezing Point N/A  
 Vapor Pressure N/A  
 Vapor Density N/A  
 Saturated Vapor Conc. N/A  
 Bulk Density N/A  
 Odor Threshold N/A  
 Volatile% N/A  
 VOC Content N/A

Water Content 4.0 - 6.0 %  
 Solvent Content N/A  
 Evaporation Rate N/A  
 Viscosity N/A  
 Surface Tension N/A  
 Partition Coefficient N/A  
 Decomposition Temp. N/A  
 Flash Point N/A  
 Explosion Limits N/A  
 Flammability N/A  
 Autoignition Temp N/A  
 Refractive Index N/A  
 Optical Rotation N/A  
 Miscellaneous Data N/A  
 Solubility N/A

N/A = not available

## Section 10 - Stability and Reactivity

## STABILITY

Stable: Stable.

## HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

## HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## Section 11 - Toxicological Information

## ROUTE OF EXPOSURE

Multiple Routes: May cause irritation. May be harmful by inhalation, ingestion, or skin absorption.

## CONDITIONS AGGRAVATED BY EXPOSURE

The toxicological properties have not been thoroughly investigated.

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

ALDRICH - P1659

www.sigma-aldrich.com

Page 3

## APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Dissolve 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 non-hazardous for transport.

## IATA

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

## Section 15 - Regulatory Information

## EU ADDITIONAL CLASSIFICATION

S: 22-24/25  
 Safety Statements: Do not breathe dust. Avoid contact with skin and eyes.

## US CLASSIFICATION AND LABEL TEXT

US Statements: Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

## 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 CPR, and the MSDS contains all the information required by the CPR.

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 from contact with the above product. See reverse side of invoice or packing slip with the above product. See reverse side of invoice or packing slip with the additional terms and conditions of sale. Copyright 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

ALDRICH - P1659

www.sigma-aldrich.com

Page 4