SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 13/OCT/2005
Date Updated: 13/MAR/2004
Version 1.2
According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

1 - Product and Company Information

Product Name Product Number	AZELAOYL CHLORIDE, 98% 299693
Company	Sigma-Aldrich Pty. Ltd. 12 Anella Avenue Castle Hill NSW 2154 Australia
Technical Phone # Fax Emergency Phone #	+61 2 9841 0555 (1800 800 097) +61 2 9841 0500 (1800 800 096) +44 8701906777 (1800 448 465)

2 - Composition/Information on Ingredients

Product Name		CAS #	EC no	Annex I Index Number
AZELAIC ACID DICH	LORIDE	123-98-8	204-668-6	
Formula Molecular Weight	C9H14Cl2O2 225.12 AMU			

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Causes burns. Irritating to respiratory system.

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER EYE CONTACT

Assure adequate flushing of the eyes by separating the eyelids with fingers.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Store in a cool dry place. Handle and store under nitrogen.

SPECIAL REQUIREMENTS: Moisture sensitive.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse. Discard contaminated shoes.

PERSONAL PROTECTIVE EOUIPMENT

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Faceshield (8-inch minimum).

9 - Physical and Chemical Properties

Appearance	Color: Very faintly Form: Clear liquid	yellow
Property	Value	At Temperature or Pressure
pH BP/BP Range MP/MP Range Flash Point Flammability Autoignition Temp Oxidizing Properties Explosive Properties Explosion Limits	N/A 248 °C N/A 113 °C N/A N/A N/A N/A	Method: closed cup

Vapor Pressure N/ASG/Density 1.143 g/cm^3 Partition Coefficient N/A Viscosity N/AVapor Density N/ASaturated Vapor Conc. N/A Evaporation Rate N/ABulk Density N/ADecomposition Temp. N/ASolvent Content N/AWater Content N/ASurface Tension N/A Conductivity N/AMiscellaneous Data N/ASolubility N/A

10 - Stability and Reactivity

STABILITY

Conditions of Instability: May decompose on exposure to moist air

Materials to Avoid: Strong bases, Alcohols, Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Hydrogen chloride gas Carbon monoxide, Carbon dioxide.

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

ROUTE OF EXPOSURE

Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin. Causes burns.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

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.

14 - Transport Information

RID/ADR

UN#: 3265 Class: 8 PG: II

Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s.

IMDG

UN#: 3265 Class: 8 PG: II

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC,

ORGANIC, N.O.S. Marine Pollutant: No

Severe Marine Pollutant: No Technical Name: Required

IATA

UN#: 3265 Class: 8 PG: II

Proper Shipping Name: Corrosive liquid, acidic,

organic, n.o.s.

Inhalation Packing Group I: No

Technical Name: Required

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: C

Corrosive.

R-PHRASES: 34-37

Causes burns. Irritating to respiratory system.

S-PHRASES: 26-36/37/39-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16 - Other Information

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 for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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