## MATERIAL SAFETY DATA SHEET

Date Printed: 02/06/2009 Date Updated: 01/29/2006 Version 1.3

```
Section 1 - Product and Company Information
```

Product Name DL-CITRAMALIC ACID - 1G

Product Number S415375 ALDRICH

Brand

Sigma-Aldrich Canada, Ltd Company Address 2149 Winston Park Drive Oakville ON L6H 6J8 CA

9058299500 Technical Phone: 9058299292 Fax: 800-424-9300 Emergency Phone:

Section 2 - Composition/Information on Ingredient

SARA 313 (+/-)-CITRAMALIC ACID DIPOTASSIUM 2306-22-1

Substance Name

Section 3 - Hazards Identification

SALT C5H6K2O5 · H2O Formula

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

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.

Section 6 - Accidental Release Measures METHODS FOR CLEANING UP

Place in appropriate container. Wash spill site with soap

solution. Flush spill area with copious amounts of water. Section 7 - Handling and Storage

## PERSONAL PROTECTIVE EQUIPMENT Respiratory: Use respirators and components tested and approved

Section 8 - Exposure Controls / PPE

under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type Pl (EN 143) dust masks. Eye: Chemical safety goggles. Section 9 - Physical/Chemical Properties

## Color: White Appearance Form: Fine crystals

At Temperature or Pressure Property Value 242.3 AMU Molecular Weight

N/A рH BP/BP Range N/A MP/MP Range N/A Freezing Point N/A Vapor Pressure N/A Vapor Density Saturated Vapor Conc. N/A SG/Density N/A Bulk Density N/A Odor Threshold N/A Volatile% N/A VOC Content N/A Water Content 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 Flammability Autoignition Temp N/A Refractive Index N/A Optical Rotation N/A Miscellaneous Data N/A Solubility N/A

HAZARDOUS EXOTHERMIC REACTIONS Hazardous Exothermic Reactions: Will not occur

N/A - not available

Section 11 - Toxicological Information

Section 10 - Stability and Reactivity

SIGNS AND SYMPTOMS OF EXPOSURE In case of fire, development of irritant decomposition products

No data available.

Section 13 - Disposal Considerations

Section 14 - Transport Information

Section 12 - Ecological Information

ALDRICH - S415375

regulations.

transport.

R: 36/37/38

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION Dissolve or mix the material with a combustible solvent and burn

www.sigma-aldrich.com

Page

Page 3

2

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

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

in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental

Section 15 - Regulatory Information

IATA

EU ADDITIONAL CLASSIFICATION Symbol of Danger: Xi

s: 26-36

US CLASSIFICATION AND LABEL TEXT

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

Safety Statements: Safety phrases: UNITED STATES REGULATORY INFORMATION SARA LISTED: No

Risk Statements: Irritating to eyes, respiratory system and skin.

CANADA REGULATORY INFORMATION WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS

Indication of Danger: Irritant.

DSL: No NDSL: No

Section 16 - Other Information

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

contains all the information required by the CPR.

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

The above information is believed to be correct but does not

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 2009 Sigma-Aldrich Co. License granted to make unlimited

paper copies for internal use only. ALDRICH - S415375 www.sigma-aldrich.com