MATERIAL SAFETY DATA SHEET

Date Printed: 05/14/2009 Date Updated: 08/11/2008 Version 1.5

SARA 313

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Section 1 - Product and Company Information
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Product	Name	URSOLIC	ACID	1

MINIMUM 90% Product Number 06753 Brand ALDRICH

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

Substance Name URSOLIC ACID 77-52-1

Ingredient Name CAS # Percent SARA 313 < 1 ETHYL ALCOHOL, NON-DENATURED, 200 64-17-5 PROOF < 1 METHANOL 67-56-1 Yes C30H48O3 Formula Section 3 - Hazards Identification

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

amounts of water.

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.

In case of contact, immediately wash skin with soap and copious

FLASH POINT

AUTOIGNITION TEMP N/A

FLAMMABILITY N/A

Section 5 - Fire Fighting Measures

EXTINGUISHING MEDIA

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

appropriate foam.

METHODS FOR CLEANING UP

Store at 2-8°C

PROCEDURE(S) OF PERSONAL PRECAUTION(S) Exercise appropriate precautions to minimize direct contact with

Sweep up, place in a bag and hold for waste disposal. Avoid

Suitable: Water spray. Carbon dioxide, dry chemical powder, or

raising dust. Ventilate area and wash spill site after material pickup is complete.

skin or eyes and prevent inhalation of dust.

Section 6 - Accidental Release Measures

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

Section 8 - Exposure Controls / PPE

Suitable: Keep tightly closed.

Section 7 - Handling and Storage

ENGINEERING CONTROLS

STORAGE

Safety shower and eye bath. Mechanical exhaust required. PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved 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

Hand: Protective gloves. Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

ALDRICH - U6753

Molecular Weight

Freezing Point

Vapor Pressure

Saturated Vapor Conc. N/A

Partition Coefficient N/A

Vapor Density

Bulk Density

Volatile% VOC Content

Viscosity

Odor Threshold

Water Content Solvent Content

Evaporation Rate

Surface Tension

ALDRICH - U6753

No data available.

IATA

BP/BP Range

Property

type Pl (EN 143) dust masks.

Wash thoroughly after handling. Section 9 - Physical/Chemical Properties Physical State: Solid Appearance

Value

N/A

N/A

N/A

N/A N/A

N/A

N/A N/A

N/A

N/A

N/A

N/A

456.7 AMU

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At Temperature or Pressure

Decomposition Temp. Flash Point 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. Materials to Avoid: Strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide. 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: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: May be harmful if swallowed. SIGNS AND SYMPTOMS OF EXPOSURE To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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Section 14 - Transport Information

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

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

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

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. 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

transport. Section 15 - Regulatory Information

UNITED STATES REGULATORY INFORMATION

CANADA REGULATORY INFORMATION

SARA LISTED: No

Section 12 - Ecological Information

Section 13 - Disposal Considerations

environmental regulations.

Proper Shipping Name: None

DSL: Yes NDSL: No

Section 16 - Other Information DISCLAIMER

contains all the information required by the CPR.

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