Material Safety Data Sheet

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Moderate skin irritant

Moderate eye irritant

1. PRODUCT AND COMPANY IDENTIFICATION Product name D-(-)-Lactic acid

Product Number L0625

Brand Sigma

Sigma-Aldrich Canada, Ltd Company 2149 Winston Park Drive

> CANADA +19058299500 +19058299292

Causes skin irritation.

Causes serious eye damage.

Wear protective gloves/eye protection/face protection.

Index-No.

Concentration

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OAKVILLE ON L6H 6J8

Fax Emergency Phone # 800-424-9300 2. HAZARDS IDENTIFICATION

D2B

Telephone

Emergency Overview WHMIS Classification

Toxic Material Causing Other Toxic Effects GHS Label elements, including precautionary statements

Pictogram Danger

Signal word

Hazard statement(s)

H315 H318

Precautionary statement(s)

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **HMIS Classification**

Health hazard: 2 Flammability: 0 0 Physical hazards:

Potential Health Effects Inhalation

May be harmful if inhaled. Causes respiratory tract irritation. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation. Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS (B)-2-Hydroxypropionic acid Synonyms

Formula $C_3H_6O_3$ Molecular Weight 90.08 g/mol

CAS-No. EC-No.

Sigma - L0825

233-713-2

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Wear self contained breathing apparatus for fire fighting if necessary.

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

10326-41-7 4. FIRST AID MEASURES

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1

(EN 143) respirator. Use respirators and components tested and approved under appropriate government

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed

5. FIRE-FIGHTING MEASURES

(R)-Lactic acid

General advice

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Suitable extinguishing media

Special protective equipment for fire-fighters

Environmental precautions Do not let product enter drains. Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE Precautions for safe handling

> Conditions for safe storage Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -20 °C

Personal protective equipment

Skin and body protection

9. PHYSICAL AND CHEMICAL PROPERTIES

workday.

Appearance Form

Melting point

Boiling point

Flash point

Chemical stability

Conditions to avoid no data available Materials to avoid

Ignition temperature

Respiratory protection

Hand protection

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Handle with gloves.

standards such as NIOSH (US) or CEN (EU).

Eye protection Safety glasses with side-shields conforming to EN166

Contains no substances with occupational exposure limit values.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of

solid

no data available

no data available

no data available

no data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides

possible or confirmed human carcinogen by IARC.

Safety data no data available pΗ

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Lower explosion limit no data available Upper explosion limit no data available Water solubility no data available 10. STABILITY AND REACTIVITY

Serious eye damage/eye irritation no data available Respiratory or skin sensitization

Germ cell mutagenicity

Reproductive toxicity

no data available Aspiration hazard

Skin

Toxicity

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Acute toxicity no data available

no data available

no data available

11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation

no data available Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as probable, IARC:

Stable under recommended storage conditions.

Strong oxidizing agents, Strong bases Hazardous decomposition products

no data available Specific target organ toxicity - single exposure (GHS) no data available

no data available Potential health effects May be harmful if inhaled. Causes respiratory tract irritation. Inhalation Ingestion May be harmful if swallowed.

Signs and Symptoms of Exposure

Additional Information

12. ECOLOGICAL INFORMATION

no data available Persistence and degradability

Specific target organ toxicity - repeated exposure (GHS)

Causes eye irritation.

no data available

15. REGULATORY INFORMATION DSL Status All components of this product are on the Canadian DSL list.

WHMIS Classification

D2B

Dispose of as unused product.

14. TRANSPORT INFORMATION

16. OTHER INFORMATION Further information

Not dangerous goods

Toxic Material Causing Other Toxic Effects

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DOT (US) Not dangerous goods IMDG

no data available Bioaccumulative potential no data available Mobility in soil no data available PBT and vPvB assessment no data available Other adverse effects

May be harmful if absorbed through skin. Causes skin irritation.

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

13. DISPOSAL CONSIDERATIONS Product Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging

Not dangerous goods

Moderate skin irritant Moderate eye irritant

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