

Safety Data Sheet
Erythrulose (L-Erythrulose)

Section 1: COMPANY AND PRODUCT INFORMATION

Product Name: Erythrulose (L-Erythrulose)

Product Form: Liquid

Product Use: Cosmetics & Personal Care

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Not assessed as a hazardous substance.

2.2. Other Hazards

No hazards are known.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

RAW MATERIAL COMPOSITION		
INCI Name	CAS No.	Percentage
Erythrulose	533-50-6 / 40031-31-0	> 76.0%

Section 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General Advice

If medical attention is required, show this safety data sheet to the doctor.

In Case of Eye Contact:

If in contact with eyes, immediately hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention if irritation persists.

In Case of Skin Contact:

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops.

If Inhaled:

Remove victim to fresh air. If breathing is irregular or stopped, use artificial respiration to support vital functions. Seek medical attention.

If Swallowed:

If product is swallowed, call physician or poison center if you feel unwell. DO NOT INDUCE VOMITING. Never induce vomiting or give diluents to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

No symptoms.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Call a poison center or physician if you feel unwell. No additional measures required.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide, dry chemical, water spray, or alcohol-resistant foam.

5.2. Special Hazards Arising from the Substance or Mixture

In combustion toxic fumes may form.

5.3. Advice for Firefighters

Protective Equipment for Firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special Firefighting Procedures: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.

5.4. Further Information

No data available.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions

Avoid breathing vapors, mist, or gas. Wear suitable protective clothing, gloves, and eye/face protection.

6.2. Environmental Precautions

Do not allow product to enter into surface water or drains.

6.3. Method and Materials for Containment and Cleanup

Take up mechanically, placing in appropriate containers for disposal. Dispose in a safe manner in accordance with local, state, or federal regulations.

Section 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Good ventilation of the workplace required. Avoid contact with skin and eyes. Avoid dust production. Avoid ingestion and inhalation. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

7.2. Conditions for Safe Storage

Keep container tightly closed. Store in dry, cool, well-ventilated area.

7.3. Specific End Uses

Cosmetic and personal care applications.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Good local/general ventilation of the workplace recommended.

8.2. Exposure Controls

Eye/Face Protection

Wearing of safety goggles or chemical goggles is recommended.

Skin/Body Protection

Chemical resistant gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements. Wear appropriate chemical resistant overall of polyester or similar to minimize contact with skin.

Respiratory Protection

Wear approved half mask dust respirator. In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations

Wash hands thoroughly after using this product, and before eating, drinking, or smoking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State: Clear viscous liquid

Color: Yellow to orange-brown

Odor: Almost odorless

pH: 2.0 - 5.0 (in 50% water)

Melting Range: No data available.

Specific Gravity: No data available.

Vapor Pressure: 1243 Pa (at 20 - 25°C)

Viscosity: No data available.

Relative Density: 1.391 g/cm³

Flammability: No data available.

Flash Point: 110°C (230°F)

Explosion Limits, lower: No data available.

Explosion Limits, upper: No data available.

Decomposition Temperature: No data available.

Solubility: Soluble in water

9.2. Other Information

No data available.

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive under normal conditions of use.

10.2. Chemical Stability

Product is stable under normal conditions of use and storage.

10.3. Conditions to Avoid

None known.

10.4. Incompatibilities with Other Materials

Strong oxidizing agents.

10.5. Hazardous Decomposition Products

Carbon oxides, nitrogen oxides, hydrogen chloride gas.

10.6. Hazardous Polymerization

Hazardous polymerization will not occur.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

A) Acute Toxicity

Oral LD50: No data available.

Dermal LD50: No data available.

B) Skin Corrosion/Irritation

No data available.

C) Serious Eye Damage/Irritation

No data available.

D) Respiratory or Skin Sensitization

Dermal: No data available.

E) Germ Cell Mutagenicity

No data available.

F) Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen.

G) Reproductive Toxicity/Teratogenicity

No data available.

H) Single Target Organ Toxicity - Single Exposure

No data available.

I) Single Target Organ Toxicity - Repeated Exposure

No data available.

J) Aspiration Hazard

No data available.

K) Potential Health Effects and Routes of Exposure

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

L) Signs and Symptoms of Exposure

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish LC50: No data available.

Toxicity to daphnia and other aquatic invertebrates LC50: No data available.

Toxicity to algae ERC50: No data available.

12.2. Persistence and Degradability

Readily biodegradable.

12.3. Bioaccumulative Potential

No data available.

12.4. Mobility in Soil

No data available.

12.5. Results of PBT and vPvB Assessment

No data available.

12.6. Other Adverse Effects

No data available.

Section 13: DISPOSAL CONSIDERATIONS

A) Product

Dispose of in accordance with federal, state, and local regulations.

B) Contaminated Packaging

Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: TRANSPORT INFORMATION

14.1. UN Number

DOT (US): Not classified as hazardous for transportation

IATA: N/A

IMDG: N/A

14.2. UN Proper Shipping Name

DOT (US)/IATA: Not dangerous goods

IMDG/ARD/RID: Not dangerous goods

14.3. Transport Hazard Class(es)

This material is NOT dangerous for air, ground, or marine transport. No special considerations required.

DOT (US): N/A

IATA: N/A

IMDG: N/A

14.4. Packing Group

DOT (US): N/A

IATA: N/A

IMDG: N/A

14.5. Environmental Hazards

DOT (US): None

IATA: None

IMDG: None

14.6. Special Precautions for User

No data available.

Section 15: REGULATORY INFORMATION

Not classified as dangerous according to transport regulations.

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

A) Canada

DSL/NDSL Status: Components are DSL Listed, NDSL Listed and/or are exempt from listing.

B) United States

TSCA Status: The components of this product are listed on the TSCA Inventory or are exempted from listing.

C) European Union

ECHA Status: This product does not meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

15.2. Chemical Safety Assessment

No data available .

Section 16: OTHER INFORMATION

16.1. Revision History

No data available.

16.2. List of Abbreviations

LD50: Median lethal dose of a substance required to kill 50% of a test population.

LC50: Medial lethal concentration of a substance required to kill 50% of a test population.

LDLo: Lowest known lethal dose

TDLo: Lowest known toxic dose

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

RTECS: Registry of Toxic Effects of Chemical Substances