spectrum®



SAFETY DATA SHEET

Preparation Date: 4/3/2018

Revision Date: Not applicable

Revision Number: Not applicable

	1. IDENTIFICATION		
Product identifier			
Product code: Product Name:	E1494 Erythritol, FCC		
<u>Other means of identification</u> Synonyms:	Erythrite 1,2,3,4-Butanetetrol Erythrol meso-Erythritol Erythritol Erythroglucin Phycitol Tetrahydroxybutane		
CAS #: RTECS # CI#:	149-32-6 KF2000000 Not available		
Recommended use of the chem	lical and restrictions on use		
Recommended use: Uses advised against	No information available. No information available		
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) Ibad Tirmiz (East Coast)		

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
meso-Erythritol	149-32-6	100

	4. FIRST AID MEASURES			
First aid measures				
General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.			
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.			
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.			
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.			
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.			
Most important symptoms and effe	ects, both acute and delayed			
Symptoms	May cause eye irritation May cause skin irritation			
Indication of any immediate medic	Indication of any immediate medical attention and special treatment needed			
Notes to Physician:	Treat symptomatically.			
Protection of first-aiders First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.				
	5. FIRE-FIGHTING MEASURES			
Extinguishing Media Suitable Extinguishing Media:	Dry chemical. Carbon dioxide (CO2). Water spray. Foam.			
Unsuitable Extinguishing Media	a: No information available.			
Specific hazards arising from the chemical				
Hazardous Combustion Produc	cts: Carbon Monoxide, Carbon Dioxide.			
Specific hazards:	May be combustible at high temperatures.			
Special Protective Actions for	or Firefighters			
Product code: E1494	Product name: Erythritol, FCC 2/10			

Specific Methods:

No information available.

Special Protective Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Methods and material for containment and cleaning up Methods for containment Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest. Do not smoke. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents Strong bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
meso-Erythritol	149-32-6	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
meso-Erythritol	149-32-6	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
meso-Erythritol	149-32-6	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Safety glasses with side-shields
Skin and body protection:	Long sleeved clothing apron Gloves
Respiratory protection:	Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Appearance:	Color:
Solid	Crystals. Crystalline powder.	White.
Odor:	Taste	Formula:
No information available.	No information available.	C4H10O4
Molecular/Formula weight: 122.12	Flammability: No information available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):
Not available	No information available	No information available
Upper Explosion Limit (%):	Melting point/range(°C/°F):	Decomposition temperature(°C/°F):
No information available	119-124°C/246-255°F	No information available
Boiling point/range(°C/°F):	Bulk density:	Density (g/cm3):
329-331°C/624-628°F	No information available	No information available
Specific gravity:	pH:	Vapor pressure @ 20°C (kPa):
1.451	No information available	No information available
Product code: E1494	Product name: Erythritol, FCC	4 / 10

Evaporation rate:	
No information available	

Odor threshold (ppm): No information available

Miscibility: No information available Vapor density: No information available

Partition coefficient (n-octanol/water): log Kow = -2.29

Solubility: Very soluble in water **VOC content (g/L):** No information available

Viscosity: No information available

10. STABILITY AND REACTIVITY

Reactivity No information available

Chemical stability

Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	-Hazardous polymerization does not occur
Conditions to avoid:	Heat. Incompatible materials.
Incompatible Materials:	Strong oxidizing agents Strong bases
Hazardous decomposition products:	No information available.
Other Information Corrosivity:	No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Inhalation. Ingestion.

Acute Toxicity

Component Information

meso-Erythritol
CAS-No.

149-32-6

LD50/oral/rat = 13500 mg/kg Oral LD50 Rat; 13100 mg/kg Oral LD50 Rat LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat = VALUE- Acute Tox Oral = 13100 mg/kg

LD50/oral/mouse = Value - Acute Tox Oral = No information available

LD50/dermal/rabbit VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion Ingestion:	Health injuries are not known or expected under normal use. Some people who are hypersensitive to sugar alcohols could have abdominal or upper gastrointestinal pain and diarrhea if ingested in large amounts
Aspiration hazard	No information available.
Delayed and immediate effects a	s well as chronic effects from short and long-term exposure
Chronic Toxicity	No information available.
Sensitization:	No information available.
Mutagenic Effects:	May affect genetic material

Carcinogenic effects:

Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
meso-Erythritol	149-32-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity

No data is available

Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available
Specific Target Organ Toxicity	
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	Potential for bioconcentration in aquatic organisms is low.
Mobility:	It is expected to have very high mobility based on estimated Koc.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
meso-Erythritol	149-32-6	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number	
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available
TDG (Canada) UN-No: Proper Shipping Name:	Not Regulated No information available

	No. 1. Company and a second
Hazard Class: Subsidiary Risk:	No information available No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available
ADR	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class: Packing Group:	No information available No information available
Subsidiary Risk:	No information available
-	
IMO / IMDG	Net Degulated
UN-No: Proper Shipping Name:	Not Regulated No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available
RID	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class: Subsidiary Risk:	No information available No information available
Packing Group:	No information available
- .	
ICAO UN-No:	Not Regulated
Proper Shipping Name:	Not Regulated No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
ΙΑΤΑ	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group: ERG Code:	No information available No information available
Special Provisions	No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
meso-Erythritol	149-32-6	Present	Present KE-13121	Present	Present (2)-3651	Present	Present	Present 205-737-3

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

<u>Chemicals Known to the State of California to Cause Cancer:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
		-		Reproductive	Reproductive
				Toxicity	Toxicity:
meso-Erythritol	149-32-6	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
meso-Erythritol	149-32-6	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	()
meso-Erythritol	149-32-6	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria. Information:

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

Non-controlled

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (D	SL)	Canada (NDSL)
meso-Erythritol	149-32-6	Present		Not Listed
Components		CAS-No.	CEPA	Schedule I - Toxic Substances
meso-Erythritol		149-32-6	Not list	ed
Components		CAS-No.	CEPA	- 2010 Greenhouse Gases Subject
			to Man	datory Reporting
meso-Erythritol		149-32-6	Not list	ed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
meso-Erythritol	149-32-6	

EU - CLP (1272/2008)

<u>S -phrase(s)</u>

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
meso-Erythritol	149-32-6		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger: None.

16. OTHER INFORMATION

Preparation Date:	4/3/2018
Revision Date:	Not applicable
Prepared by:	Sonia Owen
Disclaimer:	All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet