



SAFETY DATA SHEET

Preparation Date: 8/3/15 Revision Date: 8/3/15 Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: E2083

Product Name: 2-ETHYL-2-(HYDROXYMETHYL) 1,3-PROPANEDIOL

Other means of identification

Synonyms: 1,1,1-Tri(hydroxymethyl)propane

1,1,1-Trimethylolpropane

1,1,1-Tris(hydroxymethyl)propane

1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-

2,2-Bis(hydroxymethyl)-1-butanol 2-Ethyl-2-(hydroxymethyl)propanediol

Ethriol

Ethyltrimethylolmethane

Etriol Ettriol

Methanol, (propanetriyl)tris-

Propane, 1,1,1-tris(hydroxymethyl)-

TMPTMP (VAN) TMP (alcohol)

Tri(hydroxymethyl)propane Tris(hydroxymethyl)propane Propylidynetrimethanol

Propanediol, 2-ethyl-2-(hydroxymethyl)-, 1,3-

CAS #: 7799-6
RTECS # TY6470000
CI#: Not available

Product code: E2083

Recommended use of the chemical 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: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

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Classification

This chemical is not considered hazardous by 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 %	Trade Secret
2-Ethyl-2-(hydroxymethyl) 1,3-Propanediol	77-99-6	100	*
77-99-6			

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eye 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 effects, both acute and delayed

Symptoms May cause eye/skin irritation.

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

Product code: E2083 Product name: 2-ETHYL-2- 2/11

(HYDROXYMETHYL) 1,3-PROPANEDIOL

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Monoxide. Carbon Dioxide

Specific hazards: May be combustible at high temperatures

Fire may produce irritating and/or toxic gases

Special Protective Actions for Firefighters

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. Keep people away from and upwind of spill/leak. Use personal

protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Avoid dust formation. Remove all sources of ignition. All equipment used when handling the product

must be grounded.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning upSweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Product code: E2083

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. All equipment used when handling the product must be grounded. Remove all sources of ignition. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. Avoid dust formation. 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:

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

Incompatible Materials:

Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
2-Ethyl-2-(hydroxymethyl) 1,3-	None	None	None	None
Propanediol				
77-99-6				

Canada

Components	Alberta	British Columbia	Ontario	Quebec
2-Ethyl-2-(hydroxymethyl) 1,3-	None	None	None	None
Propanediol				
77-99-6				

Australia and Mexico

Components	Australia	Mexico
2-Ethyl-2-(hydroxymethyl) 1,3-	None	None
Propanediol		
77-99-6		

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. 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

Product code: E2083

Eye protection: Safety glasses with side-shields

Skin and body protection: Chemical resistant apron. Long sleeved clothing. Gloves.

Respiratory protection: Wear respirator with dust filter.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:Solid.Powder. Flakes.White.

Odor: Taste Molecular/Formula weight:

Slight. No information available 134.18 g/mole

Formula: Flammability: Flash point (°C):

C6H14O3 No information available 172°C

Flashpoint (°C/°F): Flash Point Tested according to: Autoignition Temperature (°C/°F):

172°C (341.6°F) Not available

Lower Explosion Limit (%): Upper Explosion Limit (%): pH:

2% No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Bulk density:

58°C (136.4°F) 160°C (320°F) No information available

Decomposition temperature(°C/°F): Density (g/cm3): Specific gravity:

No information available No information available No information available

Vapor pressure @ 20°C (kPa): Evaporation rate: Vapor density:

No information available No information available 4.8

VOC content (g/L):Odor threshold (ppm):Partition coefficientNo information availableNo information available(n-octanol/water):

No information available

Viscosity: Miscibility: Solubility:

No information available

No information available

Easily soluble in cold water

Easily soluble in hot water

No information available

Soluble in Alcohol Insoluble in Benzene

Insoluble in Carbon tetrachloride

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Chemical stability

Stability: Hygroscopic. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials. Exposure to moisture.

Incompatible Materials: Oxidizing agents.

Hazardous decomposition products: Carbon oxides.

Other Information

Product code: E2083

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

2-Ethyl-2-(hydroxymethyl) 1,3-Propanediol - 77-99-6

LD50/oral/rat = 14100 mg/kg Oral LD50 Rat (Loli) 14000-14100 mg/kg Oral LD50 Rat (RTECS)

LD50/oral/mouse = 13700-14000 mg/kg Oral LD50 Mouse

LD50/dermal/rat = No information available **LD50/dermal/rabbit** = No information available

LC50/inhalation/rat = 0.29 mg/L Inhalation LC50 Rat 4 h

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 14100mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 13700-14000mg/kg

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 = 0.29mg/l (4-hr)

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 irritation of respiratory tract.

Ingestion May cause digestive (gastointestinal) tract irritation. May affect behavior/central

nervous system (somnolence). May affect respiration (respiratory depression).

Aspiration hazardNo information available

Product code: E2083 Product name

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
2-Ethyl-2-(hydroxymethyl) 1,3-Propanediol	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

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
STOT - repeated exposure
Target Organs:

No information available
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

2-Ethyl-2-(hydroxymethyl) 1,3-Propanediol - 77-99-6

Freshwater Fish Species Data: 21700 mg/L LC50 Cyprinodon 48 h 1

Water Flea Data: 10330 - 16360 mg/L EC50 Daphnia magna 48 h

13000 mg/L EC50 Daphnia species 48 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product code: E2083 **Product name:** 2-ETHYL-2-(HYDROXYMETHYL) 1,3-

PROPANEDIOL

13. DISPOSAL CONSIDERATIONS

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	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
2-Ethyl-2-(hydroxymethyl) 1,3-Propanediol	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Risk: No information available

Packing Group: None

ERG No: No information available

Marine Pollutant No data available

DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

No information available **Proper Shipping Name: Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Description:** No information available **IMDG Page:** No information available **Marine Pollutant** No information available No information available MFAG: No information available **Maximum Quantity:**

RID

UN-No: Not Regulated

Product code: E2083

Product name: 2-ETHYL-2(HYDROXYMETHYL) 1,3PROPANEDIOL

8/11

14. TRANSPORT INFORMATION

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
2-Ethyl-2-(hydroxymethyl) 1,3-	Present	Present KE-	Present	Present (2)-	Present	Present	Present 201-074-9
Propanediol		13838		245			

U.S. Regulations

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

Chemicals Known to the State of California to Cause Cancer:

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	Carcinogen			Female Reproductive Toxicity:
			TOXICITY	TOXICITY:
2-Ethyl-2-(hydroxymethyl) 1,3-	Not Listed	Not Listed	Not Listed	Not Listed
Propanediol				

CERCLA/SARA

Components	Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Chemical Category	Section 313 - Reporting de minimis
2-Ethyl-2-	None	None	None	None	None
(hydroxymethyl) 1,3-					
Propanediol					

Product code: E2083 Product name: 2-ETHYL-2-(HYDROXYMETHYL) 1,3-PROPANEDIOL

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
	Not Applicable	Not Applicable
Propanediol		

Canada

WHMIS 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	Canada (DSL)	Canada (NDSL)
2-Ethyl-2-(hydroxymethyl) 1,3-	Present	Not Listed
Propanediol		

Components		CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting	
. , () , , , , , , , , , , , , , , , , ,	Not listed	Not listed	
Propanediol			

EU Classification

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
2-Ethyl-2-(hydroxymethyl) 1,3-		No information	
Propanediol			

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

Indication of danger:

None.

Product code: E2083 Product name: 2-ETHYL-2-(HYDROXYMETHYL) 1,3-

PROPANEDIOL

16. OTHER INFORMATION

Preparation Date: 8/3/15
Revision Date: 8/3/15

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

Product code: E2083 Product name: 2-ETHYL-2-(HYDROXYMETHYL) 1,3-

PROPANEDIOL