

**ZEMEA<sup>®</sup> Propanediol**

Version 2.1

Revision Date 05/29/2015

Ref. 130000034418

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : ZEMEA<sup>®</sup> Propanediol  
Product Use : Cosmetics, Personal care, For professional users only.

Restrictions on use : Do not use product for anything outside of the above specified uses  
Manufacturer/Supplier : DuPont Tate & Lyle Bio Products Company  
198 Blair Bend Drive  
Loudon TN 37774  
United States of America

Product Information : +1-866-404.7933  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

**Other hazards**

No applicable data available.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

**SECTION 4. FIRST AID MEASURES**

**ZEMEA® Propanediol**

Version 2.1

Revision Date 05/29/2015

Ref. 130000034418

General advice	: No applicable data available.
Inhalation	: No hazards which require special first aid measures.
Skin contact	: No hazards which require special first aid measures.
Eye contact	: Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
Ingestion	: No hazards which require special first aid measures.
Most important symptoms/effects, acute and delayed	: No applicable data available.
Protection of first-aiders	: No applicable data available.
Notes to physician	: No applicable data available.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Water, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media	: No applicable data available.
Specific hazards	: Exposure to decomposition products may be a hazard to health.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
Further information	: Evacuate personnel to safe areas. Evacuate personnel and keep upwind of fire.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel)	: No applicable data available.
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
Spill Cleanup	: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**ZEMEA<sup>®</sup> Propanediol**

Version 2.1

Revision Date 05/29/2015

Ref. 130000034418

Accidental Release Measures : No applicable data available.

**SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : No special precautions are needed in handling this material.
- Handling (Physical Aspects) : No applicable data available.
- Dust explosion class : No applicable data available.
- Storage : Store in a cool, dry place. Keep container closed to prevent contamination. Store bulk quantities under nitrogen blanket Keep away from heat, sparks and flames.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering controls : Ensure adequate ventilation, especially in confined areas.
- Personal protective equipment
- Respiratory protection : A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the OSHA respiratory protection information located at 29CFR 1910.134.
- Eye protection : Wear safety glasses with side shields.
- Skin and body protection : Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.
- Exposure Guidelines
- Exposure Limit Values

This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

**ZEMEA<sup>®</sup> Propanediol**

Version 2.1

Revision Date 05/29/2015

Ref. 130000034418

Physical state	: liquid
Form	: liquid
Color	: transparent
Odor	: Slight odour
Odor threshold	: No applicable data available.
pH	: No applicable data available.
Melting point/freezing point	: Melting point -24.6 °C (-12.3 °F)
Boiling point/boiling range	: Boiling point 214 °C (417 °F)
Flash point	: 129 °C Method: Cleveland open cup - COC
Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: No applicable data available.
Upper explosion limit	: No applicable data available.
Lower explosion limit	: No applicable data available.
Vapor pressure	: 0.1067 hPa at 20 °C (68 °F) : 0.58 hPa at 25 °C (77 °F) : 13.0656 hPa at 100 °C (212 °F)
Vapour density	: No applicable data available.
Specific gravity (Relative density)	: 1.053
Water solubility	: > 1,000 g/l
Solubility(ies)	: No applicable data available.
Partition coefficient: n-octanol/water	: No applicable data available.
Auto-ignition temperature	: No applicable data available.
Decomposition temperature	: >129 °C

**ZEMEA<sup>®</sup> Propanediol**

Version 2.1

Revision Date 05/29/2015

Ref. 130000034418

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : 52 mPa.s at 20 °C (68 °F)

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No applicable data available.

Chemical stability : Stable at normal temperatures and storage conditions.

Possibility of hazardous reactions : Hazardous polymerization will not occur.

Conditions to avoid : Temperature &gt; 129 °C (&gt; 264 °F)

Incompatible materials : Strong acids and oxidizing agents

Hazardous decomposition products : No decomposition if stored normally.

**SECTION 11. TOXICOLOGICAL INFORMATION**ZEMEA<sup>®</sup> Propanediol

Further information : No data is available on the product itself.

**Carcinogenicity**

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 12. ECOLOGICAL INFORMATION**ZEMEA<sup>®</sup> Propanediol

Further information : No data is available on the product itself.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste disposal methods - : Treatment, storage, transportation, and disposal must be in accordance with

**ZEMEA<sup>®</sup> Propanediol**

Version 2.1

Revision Date 05/29/2015

Ref. 130000034418

Product : applicable federal, state/provincial, and local regulations.

Contaminated packaging : No applicable data available.

**SECTION 14. TRANSPORT INFORMATION**

Not regulated in transportation by DOT/IMO/IATA.  
Not classified as dangerous in the meaning of transport regulations.

**SECTION 15. REGULATORY INFORMATION**

TSCA (US) Status : In compliance with TSCA Inventory requirements for commercial purposes.  
SARA 313 Regulated Chemical(s) : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):  
None known.

NJ Right to Know Regulated Chemical(s) : Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): None known.

California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

**SECTION 16. OTHER INFORMATION**

Restrictions for use : Do not use DuPont Tate & Lyle Bio Products materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont Tate & Lyle Bio Products under a written contract that is consistent with DuPont Tate & Lyle Bio Products policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont Tate & Lyle Bio Products

**ZEMEA<sup>®</sup> Propanediol**

Version 2.1

Revision Date 05/29/2015

Ref. 130000034418

representative. You may also request a copy of the DuPont Tate & Lyle Bio Products POLICY Regarding Medical Applications and DuPont Tate & Lyle Bio Products CAUTION Regarding Medical Applications.

ZEMEA<sup>®</sup> is a registered trademark of DuPont Tate & Lyle Bio Products.

Revision Date : 05/29/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Significant change from previous version is denoted with a double bar.