

ZEMEA® PropanediolRef. 130000034418
Version 3.1 (replaces: Version 3.0)Revision Date 10.09.2019
Issue Date 25.09.2019

This Product Safety Information Sheet is provided as general information for health and safety guidance.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product identifier**

Product name : ZEMEA® Propanediol

Registration number : 01-2119489383-28-0000

Synonyms : Propane-1,3-diol

Identification number : CAS-No. 504-63-2 EC-No. 207-997-3

Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : For professional users only., Cosmetics, Solvent, Fragrances, Personal care, Washing and cleaning products (including solvent based products), Polymer, Monomer

Uses advised against : See Section 16

Details of the supplier

Company : DuPont Finland Ltd.
Sokeritehtaantie 20.
FIN-02460 Kantvik.
Finland

Telephone : +358 (0)10 431 030

Supplier : DuPont Tate & Lyle Bio Products Company
198 Blair Bend Drive
Loudon TN 37774, USA

Telephone : +1-866-404.7933

E-mail address : sds-support@che.dupont.com

Emergency telephone number

+(44)-870-8200418 (CHEMTREC)

SECTION 2: Hazards identification**Classification of the substance or mixture**

Not a classified substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements

Not a classified substance or mixture according to Regulation (EC) No. 1272/2008.

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
None known.

SECTION 3: Composition/information on ingredients**Substances**

Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
Propane-1,3-diol (CAS-No.504-63-2) (EC-No.207-997-3)		
01-2119489383-28-0000		> 99.8 %

The above products are compliant to REACH registration obligations; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

SECTION 4: First aid measures**Description of first aid measures**

- Inhalation : Move to fresh air in case of accidental inhalation of vapours or decomposition products. If unconscious, place in recovery position and seek medical advice.
- Skin contact : No hazards which require special first aid measures.
- Eye contact : No hazards which require special first aid measures.
- Ingestion : No hazards which require special first aid measures.

SECTION 5: Firefighting measures**Extinguishing media**

Suitable extinguishing media : Water, Foam, Dry chemical, Carbon dioxide (CO₂)

Special hazards arising from the substance or mixture

Specific hazards during firefighting : Exposure to decomposition products may be a hazard to health.

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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**Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Methods for cleaning up : 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).

SECTION 7: Handling and storage**Precautions for safe handling**

Advice on safe handling : No special precautions are needed in handling this material.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in a cool, dry place. Keep container closed to prevent contamination. Store bulk quantities under nitrogen blanket

SECTION 8: Exposure controls/personal protection

If sub-section is empty then no values are applicable. For further information on any control parameters provided, please refer to the relevant regulation.

Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Eye protection : Wear safety glasses with side shields.

Respiratory protection : Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties**

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Form	: liquid
Colour	: transparent
Odour	: slight
Melting point	: -27.65 °C estimated
Boiling point	: 214.22 °C estimated
Flash point	: 129 °C , Method: Cleveland open cup - COC
Thermal decomposition	: > 129 °C
Lower explosion limit/ Lower flammability limit	: 2.6 vol%, estimated, Information taken from reference works and the literature.
Vapour pressure	: 0.0267 hPa at 25 °C, estimated, Information taken from reference works and the literature.
Relative density	: 1.053 , estimated
Water solubility	: completely soluble, in all proportions
Partition coefficient: n-octanol/water	: log Pow: -1.04 , estimated, Information taken from reference works and the literature.
Auto-ignition temperature	: 400 °C , estimated, Information taken from reference works and the literature.
Viscosity, dynamic	: 49 mPa.s at 20 °C, estimated
Viscosity, kinematic	: 46 mm ² /s at 20 °C, Information taken from reference works and the literature., estimated

Other information

No other data to be specially mentioned.

SECTION 10: Stability and reactivity

Possibility of hazardous reactions	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: Temperature : > 129 °C
Incompatible materials	: Strong acids and oxidizing agents
Hazardous decomposition products	: No decomposition if stored normally.

SECTION 11: Toxicological information

Not a classified substance or mixture according to Regulation (EC) No. 1272/2008. Based on available data, the

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classification criteria are not met.

SECTION 12: Ecological information

Not a classified substance or mixture according to Regulation (EC) No. 1272/2008. Based on available data, the classification criteria are not met.

SECTION 13: Disposal considerations**Waste treatment methods**

Product : Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

SECTION 14: Transport information**ADR**

- | | |
|-----------------------------------|----------------|
| 14.1. UN number: | Not applicable |
| 14.2. UN proper shipping name: | Not applicable |
| 14.3. Transport hazard class(es): | Not applicable |
| 14.4. Packing group: | Not applicable |
| 14.5. Environmental hazards: | none |

- 14.6. Special precautions for user:
Not classified as dangerous in the meaning of transport regulations.

IATA_C

- | | |
|-----------------------------------|----------------|
| 14.1. UN number: | Not applicable |
| 14.2. UN proper shipping name: | Not applicable |
| 14.3. Transport hazard class(es): | Not applicable |
| 14.4. Packing group: | Not applicable |
| 14.5. Environmental hazards: | none |

- 14.6. Special precautions for user:
Not classified as dangerous in the meaning of transport regulations.

IMDG

- | | |
|-----------------------------------|----------------|
| 14.1. UN number: | Not applicable |
| 14.2. UN proper shipping name: | Not applicable |
| 14.3. Transport hazard class(es): | Not applicable |
| 14.4. Packing group: | Not applicable |
| 14.5. Environmental hazards: | none |

- 14.6. Special precautions for user:
Not classified as dangerous in the meaning of transport regulations.

- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****Major Accident Hazard Legislation**

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Other regulations :

No specific information about other regulations/legislation to be mentioned.

SECTION 16: Other information**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-No.	Chemical Abstracts Service number
CLP	Classification, Labelling and Packaging
EbC50	Concentration at which 50% reduction of biomass is observed
EC50	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC50	Concentration at which a 50% inhibition of growth rate is observed
EyC50	Concentration at which 50 % inhibition of yield is observed
IATA_C	International Air Transport Association (Cargo)
IBC	International Bulk Chemical Code
ICAO	International Civil Aviation Organization
ISO	International Standard Organization
IMDG	International Maritime Dangerous Goods
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short term exposure limit
TWA	Time Weighted Average (TWA):
vPvB	very Persistent and very Bioaccumulative

Restrictions on use

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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 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.

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

The information provided in this Product Safety Information 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific materials(s) designated herein and may not be valid for such materials or in any process or if the material is altered or processed, unless specified in the text.