

Material Safety Data Sheet

Version: 1.4

Revision Date : 06/17/2009
Date Issued : 07/13/2010

TEGO PEP 4-17

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name : TEGO PEP 4-17
PRODUCT CODE : 306335
CHEMICAL FAMILY : Aqueous preparation of Tetrapeptides

Information on manufacturer/supplier : Evonik Goldschmidt GmbH
Goldschmidtstr. 100
Essen, 05 45127

Emergency telephone number (24h) : Telephone:
CHEMTREC (800) 424-9300
CANUTEC (613) 996-6666
Non-Emergency Phone Number: (800) 732-5616

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration [%]
1,2,3-Propanetriol	56-81-5	45 - 55
1,3-Butanediol	107-88-0	25 - 35

3. HAZARDS IDENTIFICATION

Emergency Overview

Physical Appearance

Form : Liquid
Colour : colourless
Odour : slight, specific
Water solubility : not measured

pH : 5

Potential health effects

Immediate concerns : No particular hazards known.

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- Eyes : No harmful effects have been reported upon contact with the eyes.
- Skin : No harmful effects have been reported upon contact with skin.
- Ingestion : No harmful effects have been reported upon ingestion.
- Inhalation : No harmful effects have been reported upon inhalation.
- Primary routes of entry : None
- Target organs : None
- Carcinogenicity : Not listed by NTP, IARC, ACGIH, or OSHA as a carcinogen.

4. FIRST AID MEASURES

- Eyes : In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.
- Skin : In case of contact with skin wash off with soap and water. Consult a doctor if skin irritation persists.
- Ingestion : In the event of symptoms seek medical advice.
- Inhalation : Ensure supply of fresh air.
In the event of symptoms take medical treatment.
- General advice : Remove soiled or soaked clothing immediately

5. FIRE-FIGHTING MEASURES

- Flash point : > 249.80 °F
- Autoignition temperature : not measured
- Upper Explosion limits : 15.7 %(V)
- Lower explosion limit : 1.8 %(V)

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- Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.
- Extinguishing media which must not be used for safety reasons : Full water jet
- Products in case of fire : In the event of fire the following can be released:
- carbon dioxide, carbon monoxide
Under certain conditions of combustion traces of other toxic substances cannot be excluded
- Special protective equipment for fire-fighters : Do not inhale explosion and/or combustion gases
Use self-contained breathing apparatus
- Hazardous decomposition products : None with proper storage and handling.
- OSHA flammable class : Combustible Liquid, Class IIIB

6. ACCIDENTAL RELEASE MEASURES

- Methods for cleaning up / taking up : Small spills :
Take up with absorbent material (Sand, Universal Binder).
Take up absorbent material. When absorbed, sweep or otherwise collect and dispose of properly.

Release Notes :

US regulations require reporting spills of this material that could reach any surface waters

In case of accident or road spill notify :

Telephone:

CHEMTREC USA	(800) 424-9300
CANUTEC Canada	(613) 996-6666
CHEMTREC (other countries)	(International code)+1-202-483-7616

7. HANDLING AND STORAGE

General Procedures Handling

- Advice on protection against fire and explosion : No special measures required.

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Storage

Further information : Storage: cool

Storage stability

Storage temperature : 4 - 8 °C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA hazardous components (29 CFR 1910.1200)

Components	CAS-No.	Base	Type	Value	Note
1,2,3-Propanetriol	56-81-5	US. ACGIH Threshold Limit Values	Time Weighted Average (TWA):	10 mg/m3	
1,2,3-Propanetriol	56-81-5	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)	PEL:	5 mg/m3	
1,2,3-Propanetriol	56-81-5	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)	PEL:	15 mg/m3	

Personal protective equipment

Hygiene measures : Wash hands before breaks and after work.
Do not eat, drink or smoke when working.
Remove soiled or soaked clothing immediately.

Respiratory protection : in case of formation of vapours/aerosols:
Short term: filter apparatus, Filter A-P2

Hand protection : gloves made of nitril (NBR)

Eye protection : goggles/face shield

Protective clothing : light protective clothing

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	colourless
Odour	:	slight, specific
State of aggregation	:	Liquid
Melting point	:	not measured
Boiling point	:	= > 212.00 °F
Vapour pressure	:	not measured
Density	:	1.12 g/cm ³ at 68.00 °F
Water solubility	:	not measured
pH	:	5 at 20 °C
Viscosity, dynamic	:	not measured
Further information	:	Values given to flash point and explosion limits refer to the used solvent component.

10. STABILITY AND REACTIVITY

Thermal decomposition	:	Not measured
Hazardous reactions	:	No hazardous reactions with proper storage and handling.
Hazardous decomposition products	:	None with proper storage and handling.

11. TOXICOLOGICAL INFORMATION

Note	:	Proper use provided, no adverse health effects have been observed or have been come to our knowledge.
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12. ECOLOGICAL INFORMATION

Further ecological information

Ecological notes : Do not allow to enter soil, waterways or waste water canal.

13. DISPOSAL CONSIDERATIONS

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

Product disposal and disposal requirements : In accordance with local authority regulations, take to special waste incineration plant

Contaminated packaging : If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. TRANSPORT INFORMATION

Sea transport

IMDG:

Not regulated

Air transport

ICAO/IATA:

Not regulated

DOT (Department of Transportation)

CFR Road:

Not regulated

CFR Rail:

Not regulated

CANADA Transport of Dangerous goods

TDG Road:

Not regulated

TDG Rail:

Not regulated

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15. REGULATORY INFORMATION

United States

- SARA Section 311/312 : Fire: No
Pressure generating: No
Reactivity: No
Acute: No
Chronic: No
- SARA Sections : SECTION 313
Notification : No
This product contains no SARA Title III, Section 313 listed chemicals.
- Notification Status : TSCA
Notification : No
All components of this product are not TSCA registered.
- State regulations : MASS. RIGHT TO KNOW
Notification : Yes
- RHODE ISLAND RTK
Notification : Yes
- PENNSYLVANIA RTK
Notification : Yes
- California Proposition 65 Statement : Notification : No
This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

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Canada : WHMIS CLASSIFICATION
Non-WHMIS

This product contains component(s) that are listed on the WHMIS Ingredient Disclosure List.

Components	CAS-No.
1,3-Butanediol	107-88-0

Notification Status : Canadian Environmental Protection Act
DSL
Notification : Yes
All intentional ingredients are listed on the DSL (Domestic Substance List) or have been notified pursuant to the NSN regulations.

CTFA : CTFA regulation: All components of this product are INCI (CTFA) registered or pending registration.

16. OTHER INFORMATION

HMIS Codes : Fire : 1
Health : 1
Physical Hazard : 0
Protection : X

Other information :

none

Manufacturer disclaimer : While the information and recommendations contained herein are believed to be accurate, we make no warranty with respect hereto and disclaim all liability from reliance thereon