

# Safety Data Sheet(SDS)

Last revised date: 21-09-2023

+82-31-596-3114

#### 1. Identification

1) Product identifier: VPEG-2400

2) Recommended use of the chemical and restrictions on use

o Recommended use of the chemical

Feed materials, Intermediates

o Restrictions on use

Use for recommended use only

Do not use it for weapons manufacturing and related purposes.

3) Details of the supplier of the safety data sheet

o Seller

Company name: Lotte Chemical Corporation

Address: 05551 Lotte World Tower, 300, Olympic-ro, Songpa-gu, Seoul, 05551 Rep. of KOREA

+82-2-829-4114

Telephone number:

Emergency phone number							
	Yeosu Plant	+82-61-688-2100	Ulsan Plant	+82-52-278-3500			
	Daesan Plant	+82-41-689-5900	Yeosu Plant(Advanced	+82-61-689-1100			

**Advanced Materials** 

Fax number: +82-2-834-6070

**Basic Chemicals** 

# 2. Hazards identification

- 1) Hazard classification
  - Not applicable
- 2) Allocation label elements

Hazard pictograms

- Not applicable

Signal word

- NONE

Hazard statements

- Not applicable

#### Precautionary statements

- Not applicable

#### 3) Other hazards:

According to experience and information provided, this product does not affect harmful effects when using and handling it as a regulation.

# 3. Composition/Information on ingredients

Chemical name	Common name	CAS No.	Content(wt%)
Poly(oxy-1,2-ethanediyl),	Polyethylene glycol mono a		
.alpha(2-methyl-2-propen-1-	lkyl allyl ether	31497-33-3	100
yl)-, .omegahydroxy-			

#### 4. First-aid measures

- 1) Following eye contact
  - Call a physician immediately.
- 2) Following skin contact
  - Get medical attention if irritation develops and persists.
  - Remove contaminated clothing and shoes.
- 3) Following inhalation
  - If symptoms persist, call a physician.
  - Move to fresh air.
- 4) Following ingestion
  - If accidentally swallowed obtain immediate medical attention.
- Delayed and immediate effects and also chronic effects from short and long term exposure
  No data available
- 6) Advice to physician
  - In the case of accident or if you feel unwell, seek medical advice immediately.

#### Fire-Fighting measures

- 1) Suitable (and unsuitable) extinguishing media
  - Suitable extinguishing media
    - Large fire: Water spray/fog, regular foam (Suitable extinguishing media).
    - Small fire: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO2 (Suitable extinguishing media).
    - Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
  - O Unsuitable extinguishing media

- Do not use a solid water stream as it may scatter and spread fire.
- 2) Special hazards arising from the substance or mixture
  - o Pyrolytic product
    - No data available
  - O Risk of fire and explosion
    - Heating or fire can release toxic gas.
  - o Other
    - May cause toxic effects if inhaled.
- 3) Special protective equipment for firefighters
  - In the event of fire, wear self-contained breathing apparatus.

#### 6. Accident release measures

- 1) Personal precautions, protective equipment and emergency procedures
  - Avoid dust formation.
- 2) Environmental precautions
  - Try to prevent the material from entering drains or water courses.
- 3) Methods and materials for containment and cleaning up
  - Keep in suitable, closed containers for disposal.
  - Pick up and arrange disposal without creating dust.

#### Handling and storage

- 1) Precautions for safe handling
  - For personal protection see section 8.
  - Smoking, eating and drinking should be prohibited in the application area.
- 2) Conditions for safe storage (including any incompatibilities)
  - Please note that materials and conditions to be avoided.
  - Store in a dry place. Store in a closed container.

#### 8. Exposure controls & personal protection

- 1) Chemical exposure limits, Biological exposure standard
  - Contains no substances with occupational exposure limit values.
- 2) Appropriate engineering controls
  - Ensure adequate ventilation and exhaust ventilation at the workplace.
- 3) Personal protective equipment
  - Respiratory protection
    - If you have a direct contact or exposed to the material, wear the appropriate form of respiratory protection certified.
  - o Eye protection

- If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.
- Hand protection
  - Wear chemical safety gloves.
- Skin protection
  - Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

# 9. Physical and chemical information

Property name	Values	Source
Appearance		
Physical state	solid	
Color	white	
Odor	slight	
Odor threshold	No data available	
рН	5.5 - 7.5	
Melting point/freezing point	55.7 ℃	
Initial boiling point and boiling range(°C)	Not applicable	
Flash point(°C)	> 250 °C	
Evaporation rate	Not applicable	
Flammability(solid, gas)	No data available	
Upper/lower flammability or explosive limits	No data available	
Vapour pressure	< 0.013 hPa (20 °C)	
Solubility(ies)	Solubility : 70 g/L 20 °C	
Vapour density	Not applicable	
Relative density	No data available	
n-octanol/water partition coefficient	Not applicable	
Auto ignition temperature	No data available	
Decomposition temperature	No data available	
Viscosity(mm²/s, 40°C)	No data available	
Molecular weight(mass)	2,400 g/mol	
Specific gravity	1.08 (65 °C)	

#### 10. Stability and reactivity

- 1) Chemical stability and Possibility of hazardous reactions
  - No decomposition if stored and applied as directed.
  - Stable at normal ambient temperature and pressure.
- 2) Conditions to avoid
  - Follow precautionary advice and avoid incompatible materials and conditions
- 3) Incompatible materials
  - Combustible material
- 4) Hazardous decomposition products
  - This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regula

# 11. Toxicological information

- 1) Information on the likely routes of exposure
  - No data available
- 2) Health hazard information
  - Acute toxicity
    - Acute toxicity(Oral)
      - No data available
    - Acute toxicity(Dermal)
      - No data available
    - Acute toxicity(Inhalation:Gases)
      - No data available
    - Acute toxicity(Inhalation:Vapours)
      - No data available
    - Acute toxicity(Inhalation:Dust/mist)
      - No data available
  - Skin corrosion/irritation
    - No data available
  - o Serious eye damage/eye irritation
    - No data available
  - Respiratory sensitization
    - No data available
  - Skin sensitization

- No data available
- Carcinogenicity
  - No data available
- o Germ cell mutagenicity
  - No data available
- Reproductive toxicity
  - No data available
- Specific target organ toxicity single exposure
  - No data available
- Specific target organ toxicity repeated exposure
  - No data available
- O Aspiration hazard
  - No data available

# 12. Ecological information

- 1) Ecotoxicity
  - Hazardous to the aquatic environment, short-term (acute)

No data available

• Hazardous to the aquatic environment, long-term (chronic)

No data available

2) Persistence and degradability

No data available

3) Bioaccumulative potential

No data available

4) Mobility in soil

No data available

5) Other adverse effects

No data available

#### 13. Disposal considerations

- 1) Disposal methods
  - Empty containers should be taken to an approved waste handling site for recycling or disposal.
- 2) Precautions (including disposal of contaminated container of package)
  - Dispose of in accordance with local regulations.
  - Send to a licensed waste management company.

# 14. Transport information

1) UN No.: Not applicable

2) Proper shipping name: Not applicable

3) Hazard class : Not applicable

4) Packing group : Not applicable

5) Marine pollutant: Not applicable

6) Special precautions for user related to transport or transportation measures :

Emergency measures in case of fire : Not applicable

Emergency measures in the effluent : Not applicable

- ADR

· Tunnel restriction code : Not applicable

- IMDG

· Marine pollutant : Not applicable

- Air transport(IATA)

· UN No.: Not applicable

· Proper shipping name : Not applicable

· Class or division : Not applicable

· Packing group : Not applicable

- Maritime transport in bulk according to IMO instruments :

Not applicable

#### 15. Regulatory information

Australia Industrial Chemicals Act

- Not applicable

China Inventory of Existing Chemical Substances (IECSC)

- Not applicable

92/32/EEC

- Not applicable

European Union Official Journal of the European Communities 15 June 1990 - Annex Based on Article 13 of Directive 67/548/EEC Amended by Directive 79/831/EEC

- Not applicable

Japan Law Concerning the Examination and Regulations of Manufacture, etc. of Chemical Substances

• Inventory - Japan - Existing and New Chemical Substances (ENCS)

- Poly(oxy-1,2-ethanediyl), .alpha.-(2-methyl-2-propen-1-yl)-, .omega.-hydroxy-: (7)-97

New Zealand Environmental Protection Authority, Inventory of Chemicals

- Not applicable

Turkey Regulation on Inventory and Control of Chemicals

- Not applicable

Taiwan Chemical Substance Inventory

Not applicable

U.S. Toxic Substances Control Act

- Inventory United States Section 8(b) Inventory (TSCA)
- Poly(oxy-1,2-ethanediyl), .alpha.-(2-methyl-2-propen-1-yl)-, .omega.-hydroxy-: Present [PMN; S; 5E] (ACTIVE)

Vietnam National Chemicals Inventory (NCI)

- Inventory Vietnam National Chemicals Inventory (NCI) (DRAFT)
- Poly(oxy-1,2-ethanediyl), .alpha.-(2-methyl-2-propen-1-yl)-, .omega.-hydroxy-: Present 34765

#### 16. Other information

1) Reference

NCIS, KOSHA, Montreal Protocol, ECHA, OECD SIDS, EU IUCLID, HSDB(PubChem), NITE, NTP, ACGIH, IARC, NIOSH, ChemIDplus, EPA, EPI Suite, INCHEM

2) Issue date: 26-12-2022

3) Revision date

O Revised date count: 2-2

o Last revised date: 21-09-2023

4) Other

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: Agreement Concerning the International Carriage of Dangerous Goods by Road

ATE : The Acute Toxicity Estimate ECHA : European Chemicals Agency

EPA: United States Environmental Protection Agency EPI Suite: The Estimation Programs Interface for Windows

EU IUCLID: International Uniform Chemical Information Database

**HSDB**: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods Codes

INCHEM: Internationally Peer Reviewed Chemical Safety Information

M-Factor: The Multiplication Factor

NIOSH: National Institute of Occupational Safety and Health NITE: National Institute of Technology and Evaluation(JAPAN)

NTP : National Toxicology Program SCL : Specific Concentration Limit

OECD SIDS : Organization for Economic Co-operation and Development Screening Information Dataset