	Safety Data Sheet		Doc. No.	MSDS-004
(KorPTG)			Initial Issue	Nov. 1996
	_		Revision Date	Jan. 2022
Substance name	e name Polytetramethylene Ether Glycol (PTMEG)			
CAS NO	KE NO	UN NO	EC	NO
25190-06-1	KE-20217			

1.Identification of the substance/mixture and of the company:

1.1 Substance Name Polytetramethylene Ether Glycol (PTMEG)

1.2 Intended Use and Use Limitations

Recommended Use Raw Material for : spandex, elastomers, synthetic leathers,

paints and coating materials.

Use Limitations No Data Available

1.3 Company identification

Company: Korea PTG Co., Ltd.

Address: 15, Yongyeon-ro 179beon-gil, Nam-gu, Ulsan Korea

Tel, Number: Tel 82-52-257-5240, Fax 82-52-257-5246

Emergency number: 82-52-257-5240

Team: Safety & Environment Team

2. Hazard Identification:

2.1 Hazard-Risk Not classified. However may be a slight irritation to the skin or eye depending

classification on the experience of the person in manufacturing.

2.2 Label element, including and precautionary statements

Hazard symbol The product does not require a hazard warning label in accordance with

GHS criteria.

Signal word None

Hazard statement Not assigned

Precautionary statement

Not assigned

2.3 Other hazard-Risk which are not included in the classification(NFPA)

Health 0 Fire 1 Reactivity 0

3. Composition/Information on Ingredients:

Substance Name	Trivial name	CAS No.	Content(%)
Polytetramethylene Ether	Poly(oxytetramethylene) Glycol	25190-06-1	> 99.5

4. First aid measures:

4.1 In case of intrusion into eye Rinse thoroughly with plenty of water for at least 15

15 minutes and consult a physician.

4.2 In case of skin contamination Wash off with soap and plenty of water.

Consult a physician.

Launder contaminated clothing and shoes, before reuse.



Doc. No.	MSDS-004
Initial Issue	Nov. 1996
Revision Date	Jul. 2019

Substance name

Polytetramethylene Ether Glycol (PTMEG)

4.3 In case of respiratory Remove victim to fresh area immediately.

Give artificial respiration as needed. Consult with a doctor immediately.

4.4 In case of ingestion Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

4.5 Other notice of doctor Follow your doctor to show safety health data.

5. Explosion, fire measures:

5.1 Suitable extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Inappropriate extinguishing media

Major fire:

5.2 Specific hazards arising from the chemical

Heat decomposition product Carbon oxides

Fire/Explosion hazard There is a slight risk of fire. Dust/Air mixtures can ignite

or explode.

5.3 Protective equipment and precaution

for fire-fighters Wear self contained breathing apparatus for fire fighting

if necessary.

If safe to do so, remove containers from area of fire. Prevent shatter using high-pressure water spray.

General fire extinguishing agent and use mist sprinkler

Dike for later disposal.

Avoid inhalation of Substance or combustion products.

Stay up wind and keep out of low areas.

6. Accidental release measures:

6.1 Personal precautions, protective equipment

Avoid inhalation of Substance or combustion products.

Wear personal protective equipment.

Do not touch the chemicals. Do not go across the

chemicals.

Stop leak if possible without personal risk.

Do not contact/touch the Leakage Substance.

Do not pour water inside containers. By spraying with water, reduce vapors

6.2 Environmental precautions

Absorb with sand or other non-combustible materials.

Do not let product enter drains.

6.3 Methods and materials for containment

Minor spills

Absorb it using nonflammable materials

(ex. dry sand or dirt)



Doc. No.	MSDS-004
Initial Issue	Nov. 1996
Revision Date	Jul. 2019

Substance name

Polytetramethylene Ether Glycol (PTMEG)

Pick up and arrange disposal without creating dust.

Sweep up and shovel. Keep in suitable, closed containers

for disposal.

Major spills Dike for later disposal.

Remove the source of ignition.

Keep in suitable, closed containers for disposal.

7. Handling and storage:

7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Provide appropriate exhaust ventilation at places where

dust is formed.

Clean the clothes after using chemical material.

7.2 Conditions for safe storage

Keep separated from with incompatible materials.

Store in an airtight container.

Keep container tightly closed in a dry and well-ventilated

place.

Comply with local regulations for storage.

8 Exposure controls/personal protection:

8.1 Exposure limits of chemical substance,

Domestic regulation No Exposure Limits
ACGIH regulation No Exposure Limits
Biological exposure limits No Exposure Limits

8.2 Appropriate engineering controls

8.3 Individual protective equipment

Respiratory Protection

Provide local exhaust ventilation to control vapours/mists.

Not normally needed. Use adequate certified respirator if

there is any potential for an uncontrolled release.

Eye protection Wear safety glasses to avoid contact with eyes.

Hands protection Wear appropriate protective gloves to avoid contact with

skin.

Body protection: Wear suitable protective clothing.

9. Physical and chemical properties:

9.1 Appearance (physical state, colour etc.) Liquid to waxy, Colourless

9.2 Odour Negligible

9.3 Odour threshold No Data Available

9.4 pH No Data Available 9.5 Melting point/freezing point 25 $^{\circ}$ C $^{\circ}$ 32 $^{\circ}$ C

9.6 Initial boiling point and boiling range > 204 °C (> 398 °F)

9.7 Flash point 259 °C



Doc. No.	MSDS-004
Initial Issue	Nov. 1996
Revision Date	Jul. 2019

Substance name

Polytetramethylene Ether Glycol (PTMEG)

9.8 Evaporation rate	No Data Available
9.9 Flammability (solid, gas)	No Data Available
9.10 Upper/lower explosive limits	No Data Available
9.11 Vapour pressure	No Data Available
9.12 Solubility	Slightly soluble
9.13 Vapour density	No Data Available
9.14 Specific gravity	0.979 (at 25 °C)
9.15 N-octanol/water partition coefficient	No Data Available
9.16 Auto-ignition temperature	No Data Available
9.17 Decomposition temperature	No Data Available
9.18 Viscosity	No Data Available

9.19Molecular weight 220, 650, 1000, 1400, 1800, 2000, 3000

9.20 Solvent soluble Aromatic and chlorinated solvents

10. Stability and reactivity:

10.1 Chemical stability and Possibility of Stable under recommended storage conditions.

hazardous reactions

But there is a risk of self-ignition at high temperature.

10.2 Conditions to avoid Avoid heat, flame, spark and ignition source. (Electrostatic discharge, Shock, vibration, etc.) Avoid contact with incompatible materials.

10.3 Substance to avoid Acid, Oxidant10.4 Hazardous decomposition products Carbon oxides

11. Toxicological information:

11.1 Information on the likely route of exposure

InhalationPossibleOralPossibleSkin ContactPossibleEye contactPossible

11.2 Health Hazard Information

Acute oral toxicity LD50 11,340 mg/kg rat(650 mw, Quaker Oats)
Acute dermal toxicity LD50 8,370 mg/kg rabbit(650 mw, Quaker Oats)

Acute inhalation toxicity No Data Available

Skin corrosion or irritation May cause slight skin irritation.

Serious eyes damages or irritation May cause slight eye irritation.

Respiratory sensitization

No Data Available
Skin sensitization:

No Data Available
Specific target organ toxicity substance

No Data Available

(single exposure)

Specific target organ toxicity substance

Germ cell mutagenicity

Reproductive toxicity

No Data Available

No Data Available



Doc. No.	MSDS-004
Initial Issue	Nov. 1996
Revision Date	Jul. 2019

Substance name

Polytetramethylene Ether Glycol (PTMEG)

Carcinogenicity

IARC No Data Available
ACGIH No Data Available
NTP No Data Available
OSHA No Data Available
Aspiration hazard No Data Available
11.3 Numerical Scale of toxicity No Data Available

(Acute toxicity Estimates)

12. Ecological information:

12.1 Ecotoxicity

Fish No Data Available
Crustacean No Data Available
Bird No Data Available

12.2 Persistence and degradability

Persistence No Data Available degradability No Data Available

12.3 Bioaccumulative potential

Accumulative No Data Available
Biodegradation No Data Available
12.4 Mobility in soil No Data Available
12.5 Other hazardous effects No Data Available

13. Disposal considerations:

13.1 Disposal methods No Data Available

13.2 Disposal attention Consider notices of regulations in case that it is indicated

in waste disposal regulation.

14. Transport information:

14.1 U.S. Department of Transportation (DOT)

Not regulated as dangerous good

14.2 International Maritime Organization (IMDG) Not regulated as dangerous good

14.3 International Air Transport Association (IATA) Not regulated as dangerous good

/ International Civil Aviation Organization (ICAO)

15. Regulatory information:

15.1 Korean Industrial Safety and Health ActNot Applicable15.2 Korea Toxic Chemicals Control Act (KCCA)Not Applicable15.3 Safety Control of Dangerous Substances ActNot Applicable

in Korea



Doc. No. MSDS-004
Initial Issue Nov. 1996
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15.4 International Regulations

US Toxic Substance Chemical Control Act (TSCA) Listed

Canada Domestic Substance List (DSL or NDSL)

Listed on Canda's DSL List

American Management Information

Not Applicable

(OSHA Regulation)

American Management Information

(CERCLA Regulation) Not Applicable

American Management Information

Not Applicable

(EPCRA 302 Regulation)

American Management Information

(EPCRA 304 Regulation) Not Applicable

American Management Information

Not Applicable

(EPCRA 313 Regulation)
American Management Information

(Rotterdam Convention material)

Not Applicable

American Management Information

(Stockholm Convention material)

American Management Information

(Montreal Protocol material)

Not Applicable

Not Applicable

EU classification Information

(Final classification results)

Not Applicable

EU classification Information (Risk statement) Not Applicable EU classification Information (Safety statement) Not Applicable

16. Other information:

16.1 Reference:

Croner's: Emergency Spillage Guide.

Croner's: Emergency First Aid Guide. Croner's: Substances Hazardous to Health

ERG 2004, , RSAP, US DOT

National Institute of Technology and Evaluation, Japan

UN Recommendations on the Transport of Dangerous Goods Model Regulations, 14th Edition

TOXNET, U.S. National Library of Medicine http://toxnet.nlm.nih.gov

The Chemical Database, The Department of Chemistry at the University of Akron

http://ull.chemistry.uakron.edu/erd

International Chemical Safety Cards(ICSC) http://www.nihs.go.jp/ICSC

ECB-ESIS(European chemical Substances Information System) http://ecb.jrc.it/esis

ECOTOX Database, EPA http://cfpub.epa.gov/ecotox

IUCLID Chemical Data Sheet, EC-ECB

Initial Assessment Report for SIAM 19, Synthetic Amorphous Silica, July 2004, UNEP, OECD.

IMDG Code 2006 edition (Amendment 33-06), IMO

16.2 Initial Issue Date Nov. 1996

16.3 Revision Number and Date

Revision NumberRevision DateJul. 2019

16.4 Others No Data Available