
1. PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifiers**

Product name: Polyethylene glycol derivatives, **PFPE-PEG**, PFPE MW 5k & PEG MW 600/5k

Product Number: PPP-231, PPP-234

Brand: Creative PEGWorks

CAS No.: Unknown for the specific derivative product; polyethylene glycol has a CAS No.: 25322-68-3

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

Identified uses: Laboratory research chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company: Creative PEGWorks

Address: PO BOX 16863, Chapel Hill, NC 27516 USA

Phone: (+1) 919-748-3734

Fax: (+1) 919-287-2759

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture. No data available on precautionary statements

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Synonyms: PEG derivatives

Polyethylene Glycol (CAS No.: 25322-68-3) is the major material used to produce its derivatives.

Component	Classification	Concentration
Polyethylene glycol derivatives		
		<=100%

4. FIRST AID MEASURES**4.1 Description of first aid measures****If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water. Remove contaminated clothing.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

No data available. The most important known symptoms and effects may be described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool place.

Storage class: Non Combustible Solids or Semi-solids.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

No data available for polyethylene glycol derivatives

Note: A TWA limit of 10.00 mg/m³ for polyethylene glycol (CAS# 25322-68-3) based on USA Workplace Environmental Exposure Levels (WEEL). In compliance with OSHA, a PEL of 5.00 mg/m³ for respirable dust.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: No data available

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: No data available

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: powder or semi-solid Color: white or off-white
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	1.1-1.3 g/mL at 25 °C (77 °F)
n) Water solubility	> 1.0 mg/mL
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

Note: Low molecular weight PEG derivatives ($\leq 1k$ for linear PEG or $\leq 2k$ for multi-branched PEG) may appear as gel-like or viscous liquid. PEG derivatives are soluble in DMSO, DMF, chloroform, and dichloromethane.

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY**10.1 Reactivity**

No data available

10.2 Chemical stability

Stable under recommended storage conditions

Contains the following stabilizer(s) or inhibitor(s):

For polyethylene glycol derivatives containing acrylate or maleimide functional groups, MEHQ (≥ 100 - ≤ 500 ppm) inhibitor may be present.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

NO DATA AVAILABLE FOR THIS POLYETHYLENE GLYCOL DERIVATIVE PRODUCT.

The following information is for polyethylene glycol (CAS# 25322-68-3).

Information on toxicological effects**Acute toxicity**

LD50 Oral: Rat > 15,000 mg/kg

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

Skin - Rabbit

Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Mild eye irritation - 24 h

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**NO DATA AVAILABLE FOR THIS POLYETHYLENE GLYCOL DERIVATIVE PRODUCT.**

The following information is for polyethylene glycol (CAS# 25322-68-3).

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION**SARA 302 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

16. OTHER INFORMATION**NO DATA AVAILABLE FOR THIS POLYETHYLENE GLYCOL DERIVATIVE PRODUCT.**

The following information is for polyethylene glycol (CAS# 25322-68-3).

HMIS Rating

Health hazard: 0

Chronic Health Hazard:

Flammability: 1

Physical Hazard 0

NFPA Rating

Health hazard: 0

Fire Hazard: 1

Reactivity Hazard: 0

Further information

Disclaimer: Creative PEGWorks provides the information contained herein in good faith but makes no representation or warranty as to the comprehensiveness or accuracy of any information, or of the suitability for any purpose of any material. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of product. Recipients must exercise their independent judgment in determining its appropriateness for a particular purpose and are responsible for making sure their use is safe and lawful and does not infringe on the rights of any third parties. Creative PEGWorks and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.creativepegworks.com for additional terms and conditions of sale.



SAFETY DATA SHEET

Version 3.2

Revision Date: Dec 21st, 2021

Preparation Information

Creative PEGWorks

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