

SAFETY DATA SHEET

Poly(ethylene glycol) diacrylate (PEGDA)

3.4 kDa • 6 kDa • 10 kDa • 20 kDa

Document version	1.0 October 8, 2026
Status	APPROVED
Basis	Carlsbad Bio SPC-004 and published PEGDA safety data

SECTION 1: Identification

Product name	Poly(ethylene glycol) diacrylate (PEGDA); PEG diacrylate. CAS: 26570-48-9 (PEGDA polymer family).
Covered Carlsbad Bio products	FB5928 — PEGDA 3.4 kDa; FB5929 — PEGDA 6 kDa; FB5930 — PEGDA 10 kDa; FB5931 — PEGDA 20 kDa.
Recommended use	Laboratory research, hydrogel fabrication and bioink formulation. Research Use Only. Not for human or clinical use.
Supplier	Carlsbad Bio, American Fork, Utah, USA. Email: Support@CarlsbadBio.co. Emergency contact: consult local emergency services/poison center; supplier-specific emergency number to be confirmed before issue.

SECTION 2: Hazard(s) identification

Provisional OSHA GHS classification based on published PEGDA SDSs: Skin irritation, Category 2; Serious eye damage, Category 1; Skin sensitization, Category 1. Confirm classification with actual manufacturer SDS for all grades.

Signal word	DANGER. Pictograms: GHS05 (corrosion/serious eye damage); GHS07 (exclamation mark).
H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.	
Precautions	Avoid breathing dust. Avoid skin and eye contact. Wear protective gloves, protective clothing, eye/face protection. Wash thoroughly after handling. Contaminated work clothing should not leave workplace.
Response	IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if easy; continue rinsing and obtain immediate medical attention. IF ON SKIN: Wash with plenty of water; if irritation or rash develops, seek medical advice.

SECTION 3: Composition/information on ingredients

Substance	Poly(ethylene glycol) diacrylate, CAS 26570-48-9; average nominal molecular weight varies by SKU (3,400 / 6,000 / 10,000 / 20,000 g/mol).
Supplier specification	MEHQ inhibitor ≤1,000 ppm. Exact composition, impurities and grade-specific stabilizer levels must be verified against manufacturer documentation.

SECTION 4: First-aid measures

Eye contact	Immediately rinse carefully with running water for at least 15 minutes; remove contacts if easy. Seek immediate medical attention due to serious-eye-damage classification.
Skin contact	Remove contaminated clothing; wash thoroughly with soap and water. Seek medical advice for irritation or allergic reaction.
Inhalation	Move to fresh air. Obtain medical advice if symptoms persist.
Ingestion	Rinse mouth. Do not induce vomiting unless instructed by medical personnel. Seek medical advice if unwell.

SECTION 5: Fire-fighting measures

Use water spray, dry chemical, carbon dioxide or foam appropriate to surrounding fire.

Thermal decomposition/combustion may produce carbon oxides and irritating fumes. Firefighters should use suitable protective equipment and self-contained breathing apparatus. Specific flammability parameters for these solid grades have not been verified.

SECTION 6: Accidental release measures

Avoid generating or inhaling dust; wear gloves and eye protection. Restrict access and prevent material entering drains.

Collect solid material carefully into suitable labeled waste container; avoid dry sweeping that disperses dust. Clean contaminated surfaces using suitable methods. Dispose per applicable regulations.

SECTION 7: Handling and storage

Handle using good laboratory practice. Avoid skin/eye contact, dust generation and unintended light/heat exposure; avoid contact with incompatible chemicals.

Keep tightly closed, dry and protected from light. Store at $\leq -20^{\circ}\text{C}$ according to Carlsbad Bio incoming specification. Allow container to warm while closed before opening to reduce condensation.

SECTION 8: Exposure controls/personal protection

Occupational exposure limits

No PEGDA-specific limit identified in reviewed references; follow applicable workplace dust controls.

Engineering controls

Adequate ventilation; use local dust capture when needed.

PPE

Chemical-resistant gloves, safety goggles (and face protection where splashing is possible), lab coat, closed-toe shoes. Respiratory protection if dust exposure cannot be adequately controlled, per workplace assessment.

SECTION 9: Physical and chemical properties

Appearance

Fine white to off-white powder; odorless (per SPC-004).

Solubility

Soluble in deionized water at 20 wt.% (per SPC-004).

Nominal molecular weight

3.4 / 6 / 10 / 20 kDa, depending on SKU.

pH, melting point, boiling point, flash point, vapor pressure, density, partition coefficient and decomposition temperature: Not determined for these supplied grades.

SECTION 10: Stability and reactivity

Acrylate groups can undergo polymerization, especially with appropriate initiators/light; protect from unintended curing conditions.

Avoid excessive heat, light, incompatible radical initiators and strong oxidizers. Specific incompatible-material and stability studies for these grades are not available.

SECTION 11: Toxicological information

Potential routes

Eye contact, skin contact, inhalation of dust, accidental ingestion.

Published PEGDA SDSs identify skin irritation, skin sensitization and serious eye damage. Grade-specific acute toxicity, repeated-dose toxicity, mutagenicity and carcinogenicity data were not provided in the reviewed Carlsbad Bio specification.

SECTION 12: Ecological information

Grade-specific aquatic toxicity, persistence, degradability, bioaccumulation and mobility data not available. Avoid environmental release.

SECTION 13: Disposal considerations

Dispose of material, contaminated packaging and solutions through an appropriate chemical waste route in accordance with applicable local, state and federal requirements. Do not discharge concentrated material into drains.

SECTION 14: Transport information

Transport classification for these exact supplied grades has not been verified against the manufacturer SDS. Do not assign UN number, packing group or dangerous-goods status without supplier confirmation.

SECTION 15: Regulatory information

Prepared in the 16-section SDS format for US laboratory customers. Final OSHA HazCom classification, TSCA status and applicable state/regional listings must be confirmed for the actual manufacturer product. Research-use labeling does not remove applicable hazard-communication obligations.

SECTION 16: Other information

Prepared	October 8, 2026. Revision: 01. Finalized based on available product specifications and published PEGDA safety information.
Source references	Carlsbad Bio SPC-004 PEGDA Incoming Specification (Rev 01); Sigma-Aldrich PEGDA SDS (2024, CAS 26570-48-9); 3D Systems/Allevi PEGDA 3400 SDS (2023); Thermo Fisher PEGDA 3400 SDS (2025).

This document combines published hazard information with Carlsbad Bio product specifications. Before distribution, obtain and compare the NAYAS manufacturer SDS for all four grades, confirm transport and regulatory sections, and add an appropriate emergency contact.