



Safety Data Sheet (SDS)

SECTION 1 – Identification

Product Name: Animal Free Recombinant Human Macrophage Colony Stimulating Factor (M-CSF)

Synonyms: CSF-1, Colony Stimulating Factor 1, Lanimostim

Catalog Number: HMCSF

Recommended Use: For research use only (RUO). Not for human or animal therapeutic or diagnostic applications.

Manufacturer Contact:

Pacific Coast Biologics, INC.

2360 Eastman Ave, Suite 101, Oxnard, CA 93030, USA

Email: support@pacificcoastbio.com

Emergency Contact: Local poison control center or emergency medical services.

SECTION 2 – Hazard Identification

Classification (GHS):

Not classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

Signal Word: None

Hazard Statements:

- May cause mild skin, eye, or respiratory irritation.
- Treat as potentially bioactive protein.

Precautionary Statements:

- Avoid inhalation, ingestion, or direct contact.
- Wear protective gloves, lab coat, and eye protection.
- Wash thoroughly after handling.



SECTION 3 – Composition/Information on Ingredients

Substance: Recombinant Human M-CSF (Animal Free)

CAS Number: 53109-32-5

EC Number: Not assigned

Formulation: Lyophilized powder with small traces of sodium phosphate.

Concentration: Supplied in microgram (μg) quantities per vial

SECTION 4 – First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical attention if symptoms occur.
 - **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
 - **Eye Contact:** Rinse immediately with water for at least 15 minutes. Seek medical care if irritation persists.
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical help if unwell.
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SECTION 5 – Firefighting Measures

Suitable Extinguishing Media: Water spray, CO_2 , dry chemical, or foam.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides.

Protective Equipment: Firefighters should wear SCBA and full protective gear.

SECTION 6 – Accidental Release Measures

- Avoid creating aerosols.
- Wear gloves, safety goggles, and protective clothing.
- Absorb spills with appropriate material (paper towels, absorbent pads).
- Decontaminate area with disinfectant.



- Dispose of waste according to local regulations.

SECTION 7 – Handling and Storage

Handling:

- Use standard laboratory practices.
- Avoid inhalation, ingestion, and skin/eye contact.
- Handle in a biosafety cabinet if aerosols may be generated.

Storage:

- Store lyophilized vials at -20°C or below.
- Store reconstituted aliquots at -80°C .
- Protect from light, heat, and moisture.
- Avoid repeated freeze–thaw cycles.

SECTION 8 – Exposure Controls/Personal Protection

Exposure Limits: None established.

Engineering Controls: Use in well-ventilated area; biosafety cabinet recommended.

Personal Protective Equipment (PPE):

- Eye/Face: Safety goggles or face shield
- Hands: Nitrile or latex gloves
- Skin: Laboratory coat
- Respiratory: Not normally required; use respirator if aerosolization possible

SECTION 9 – Physical and Chemical Properties

- **Appearance:** White/off-white lyophilized powder; clear solution after reconstitution
- **Odor:** Odorless



- **Solubility:** Soluble in aqueous buffers
 - **pH:** Between pH 7.2 – 7.4 when reconstituted in purified water
 - **Stability:** Stable under recommended storage
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SECTION 10 – Stability and Reactivity

Stability: Stable when stored as recommended.

Conditions to Avoid: Heat, light, repeated freeze–thaw cycles.

Incompatible Materials: Strong oxidizers.

Decomposition Products: Carbon oxides, nitrogen oxides upon combustion.

SECTION 11 – Toxicological Information

- **Acute Toxicity:** No data available
 - **Skin/Eye Irritation:** May cause mild irritation
 - **Respiratory Sensitization:** No data available
 - **Carcinogenicity/Mutagenicity/Reproductive Toxicity:** No data available
 - **Notes:** Protein of biological origin; treat as potentially bioactive
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SECTION 12 – Ecological Information

- No ecological data available
 - Not expected to pose significant environmental hazard in small lab-scale quantities
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SECTION 13 – Disposal Considerations

- Dispose of in accordance with federal, state, and local regulations.
 - Decontaminate surfaces with disinfectant before disposal.
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SECTION 14 – Transport Information

UN Number: Not regulated

Proper Shipping Name: Non-hazardous laboratory reagent

Hazard Class: Not applicable

Packing Group: Not applicable

Special Precautions: Product is stable at ambient temperatures

SECTION 15 – Regulatory Information

- OSHA HCS: Not hazardous
 - TSCA: Not listed
 - SARA Title III: Not listed
 - California Proposition 65: Not listed
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SECTION 16 – Other Information

Prepared by: Pacific Coast Biologics, INC.

Date Prepared: 03/01/2026

Revision Number: 1.0

This SDS is provided for laboratory safety guidance only. Users are responsible for ensuring safe handling and compliance with applicable regulations.
