



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

Poloxamer 188

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Poloxamer 188
- Product Number: P188-CAS9003116-202601
- Brand: SIGALD
- CAS-No.: 9003-11-6
- Synonyms: Polyoxyethylene-Polyoxypropylene Block Copolymer; Pluronic F68
- Chemical Family: Non-ionic Block Copolymer

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
- RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses & Restrictions

- Identified Uses: Pharmaceutical excipient (solubilizer, emulsifier, stabilizer); cosmetic additive (surfactant, moisturizer); food additive (emulsifier); industrial surfactant (dispersant, defoamer).
- Uses Advised Against: Direct oral consumption in excessive amounts without formulation approval.

SECTION 2: Hazards Identification

2.1 GHS Classification: Skin irritation (Category 3); Eye irritation (Category 3)2.2 GHS Label Elements

- Hazard Pictogram: None
- Signal Word: WARNING
- Hazard Statements: H316 (Causes mild skin irritation); H320 (Causes mild eye irritation)
- Precautionary Statements: P264, P280, P305+P351+P338

2.3 Physical/Chemical Hazards: Non-flammable; stable under normal conditions; no explosion or fire risk.2.4 Health Hazards: Mild skin/eye irritation in sensitive individuals; no acute/chronic toxicity; inhalation of dust may cause slight respiratory discomfort.2.5 Environmental Hazards: Low toxicity to aquatic organisms; fully biodegradable (BOD₅ /COD > 0.6); no eutrophication risk.

SECTION 3: Composition/Information on Ingredients



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

- Substance/Mixture: Pure Substance (Copolymer) | Component | Content (w/w) | CAS-No. | Hazard Classification | |-----|-----|-----|-----| | Poloxamer 188 | ≥ 99.0% | 9003-11-6 | Skin Irrit. 3; Eye Irrit. 3 |

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; no special treatment if no discomfort; consult a doctor if coughing persists.
- Skin Contact: Rinse skin with plenty of running water for 5-10 minutes; wash contaminated clothing before reuse.
- Eye Contact: Rinse eyes thoroughly with water/normal saline for 10 minutes; remove contact lenses if present; consult a doctor if irritation continues.
- Swallowed: Rinse mouth with water; do not induce vomiting; drink plenty of water to dilute; seek medical attention if abdominal discomfort occurs.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, carbon dioxide (CO₂), dry powder.
- Unsuitable Media: No restrictions.
- Special Hazards: Non-combustible; decomposes above 250°C releasing non-toxic carbon oxides.
- Firefighter Advice: Wear standard fire-fighting gear; cool containers with water spray if involved in fire.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear nitrile gloves and safety glasses for large spills; dust mask (FFP1) if powder is generated.
- Environmental Precautions: Prevent runoff into sewers/rivers; product is biodegradable, no long-term pollution.
- Cleanup: Small spill - sweep into sealed containers for reuse or disposal; large spill - dike and transfer to sealed containers.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area; avoid dust inhalation; use local exhaust ventilation for powder handling; no special safety measures for routine use.
- Storage: Cool, dry warehouse (5-30°C); keep container tightly closed; avoid direct sunlight and high temperature (>40°C); store separately from strong oxidizing agents.
- Shelf Life: 24 months (unopened, specified conditions); 6 months after opening.

SECTION 8: Exposure Controls/Personal Protection

- PPE: Safety glasses, nitrile gloves, and dust mask for powder handling; respiratory protection not required under normal conditions.
- Engineering Controls: Basic ventilation sufficient; local exhaust for dust-generating processes.

SECTION 9: Physical and Chemical Properties

- Physical State: Solid (waxy/flakes); Color: White to off-white; Odor: Odorless



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

- pH (1% Solution): 5.0-7.5; Melting Point: 52-56°C; Solubility: Fully miscible with water
- Density (25°C): 1.06-1.10 g/cm³; Viscosity (25°C, 20% Solution): 200-400 mPa·s
- Cloud Point: 52-58°C; Flash Point: > 200°C; Decomposition Temperature: > 250°C
- Vapor Pressure (25°C): < 0.1 hPa; Partition Coefficient (n-octanol/water): log P ≈ -2.5

SECTION 10: Stability and Reactivity

- Stability: Stable under normal storage/handling; no polymerization risk.
- Incompatibilities: Strong oxidizing agents (high concentration); strong acids (pH <3) or bases (pH >10) at high temperatures.
- Hazardous Decomposition Products: CO, CO₂ (above 250°C).

SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD₅₀): > 15,000 mg/kg; Dermal (Rabbit, LD₅₀): > 20,000 mg/kg
- Skin/Eye Irritation: Mild irritation, reversible within 24-48 hours.
- Carcinogenicity: Not classified as carcinogenic by IARC, EPA, or NTP.

SECTION 12: Ecological Information

- Fish (Zebrafish, LC₅₀): > 5000 mg/L (96h); Biodegradability: Biodegradation rate >70% in 28 days.

SECTION 13: Disposal Considerations

- Product Waste: Classified as non-hazardous waste; dispose via licensed waste treatment facilities or recycle.
- Packaging Waste: Rinse thoroughly; recycle as non-hazardous waste or dispose of as municipal solid waste.

SECTION 14: Transport Information

- UN Number: - (Not dangerous goods)
- Transport Class: -; Packaging Group: -
- UN Proper Shipping Name: Non-dangerous goods (Pluronic 188)
- Special Precautions: Transport at 0-40°C; avoid collision and direct sunlight.

SECTION 15: Regulatory Information

- National Regulations: Complies with China Hazardous Chemical Safety Management Regulation (non-hazardous); meets pharmaceutical/cosmetic/food additive standards.
- International Regulations: GHS Rev.9 (Irritation 3); REACH (not in SVHC List); TSCA (listed); FDA (approved for food/pharmaceutical use).

SECTION 16: Other Information

- Revision Date: 20 JAN 2026
- Disclaimer: Based on current scientific knowledge; supplier not liable for improper use.