

MILES® SURFACTANT NP-9 (NONYLPHENOL ETHOXYLATE)

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: Nonylphenol ethoxylate (9 EO)

CAS No.: 127087-87-0 | Formula: Nonylphenol ethoxylate, average 9 moles ethylene oxide

Recommended Use: Surfactant for cleaners and detergents, laundry, paper and textile processing, coatings, agrochemicals, metalworking fluids

Supplier: Miles Lubricants LLC

Emergency Telephone: CHEMTREC 1-800-424-9300 (US)

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification: Acute Tox. 4 (oral, inhalation); Skin Irrit. 2; Eye Dam. 1; Aquatic Chronic 3

Signal Word: Danger

Hazard Statements: H302 + H332 – Harmful if swallowed or if inhaled. H315 – Causes skin irritation. H318 – Causes serious eye damage. H412 – Harmful to aquatic life with long lasting effects.

Precautionary Statements: P261, P264, P270, P271, P273, P280, P301+P312+P330, P302+P352, P304+P340+P312, P305+P351+P338+P310, P332+P313, P362, P501

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Nonylphenol polyethylene glycol ether (CAS 127087-87-0): 90–100%; polyethylene glycol: 1–5%; polyoxyethylene dinonylphenol: 1–5%

SECTION 4: FIRST-AID MEASURES

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open; seek immediate medical attention (small splashes can cause serious eye damage).

Skin Contact: Wash with plenty of soap and water; if irritation persists, seek medical attention.

Inhalation: Move to fresh air; seek medical attention if symptoms persist.

Ingestion: Rinse mouth with water and drink water. Do not induce vomiting. Seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media: Dry chemical, CO₂, foam. Do not use a high-volume water jet.

Special Hazards: Combustion produces toxic fumes, carbon oxides and nitrogen oxides; keep fire-fighting run-off out of drains.

Firefighter PPE: SCBA and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Wear protective equipment. Absorb with inert material (sand, silica gel, universal binder); keep out of drains and waterways.

SECTION 7: HANDLING AND STORAGE

Store in tightly closed containers in a dry, well-ventilated place. Pour point -1°C; may thicken or solidify in cold storage; warm gently and mix before use. Keep away from strong acids, strong bases and strong oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: No exposure limit established for the product. Polyethylene glycol component: AIHA WEEL (TWA) 10 mg/m³.

Engineering Controls: General or local exhaust ventilation; eyewash station nearby.

PPE: Chemical splash goggles and face shield; chemical-resistant gloves; impervious protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow liquid | **Odor:** Mild

Boiling Point: > 250°C (482°F) | **Freezing Point:** 3.8–5°C (39–41°F); pour point -1°C (30°F)

Specific Gravity: 1.05–1.06 @ 20°C | **Flash Point (Closed Cup):** 237–247°C (459–477°F)

Vapor Pressure: < 0.01 mm Hg @ 20°C | **Viscosity:** 112–237 mm²/s @ 25°C

pH: 6.5–7.5 | **Cloud Point (1% aqueous):** 54°C | **Solubility in Water:** Soluble

SECTION 10: STABILITY AND REACTIVITY

Stable under normal conditions. Avoid heat, flames and sparks. Incompatible with strong acids, strong bases and strong oxidizers.

SECTION 11: TOXICOLOGICAL INFORMATION

Harmful if swallowed or inhaled; irritating to skin; causes serious eye damage (small splashes can cause irreversible damage). Not classified as a carcinogen by IARC, NTP or OSHA.

SECTION 12: ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects. Prevent release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and containers at an approved waste disposal plant per local/state/federal regulations.

SECTION 14: TRANSPORT INFORMATION

DOT: UN3082, Environmentally hazardous substance, liquid, n.o.s. (nonylphenol polyethylene glycol ether), Class 9, PG III, when each package is 119 gallons (450 L) or more; otherwise may be shipped as not regulated.

SECTION 15: REGULATORY INFORMATION

Listed on TSCA. Contains trace 1,4-dioxane and ethylene oxide (California Prop 65). Nonylphenol ethoxylates are restricted in some markets; confirm requirements for your application.

SECTION 16: OTHER INFORMATION

This SDS is a general reference compilation and does not replace the manufacturer's or Miles Lubricants LLC's officially issued, lot-specific SDS.