

Amino-Functional Polydimethylsiloxane 60% Emulsion

Safety Data Sheet according to OSHA HCS 29 CFR 1910.1200 & GHS Rev. 8

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Amino-Functional Polydimethylsiloxane 60% Emulsion
CAS Number:	68554-54-1 / 71750-79-3 (Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me)
Recommended Use:	Textile auxiliary agent, fiber lubricant, surface modification, industrial release agent.
Manufacturer / Supplier:	PURITY+ Specialty Chemicals Website: https://purity.plus
Emergency Contact:	Phone: +92 340 400 5870 (24/7 Technical Support)

SECTION 2: HAZARDS IDENTIFICATION



Signal Word: **WARNING**

GHS Classification: Skin Irritation (Category 3), Eye Irritation (Category 2B)

Hazard Statements:

- H316: Causes mild skin irritation.
- H320: Causes eye irritation.

Precautionary Statements:

- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves and eye protection.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT %	GHS CLASSIFICATION
Amino-functional Polydimethylsiloxane	68554-54-1	60.0% ± 1.5%	Skin Irrit. 3 (H316), Eye Irrit. 2B (H320)
Non-ionic Emulsifiers (Ethoxylated Alcohols)	Proprietary	5.0% - 8.0%	Acute Tox. 4 (H302), Eye Dam. 1 (H318)
Water (Carrier)	7732-18-5	Balance (~32%)	Not Classified

SECTION 4: FIRST AID MEASURES

Eye Contact:	Flush eyes with generous amounts of water for at least 15 minutes, holding eyelids open. Seek medical attention if irritation persists.
Skin Contact:	Remove contaminated clothing. Wash affected skin thoroughly with water and mild soap.
Inhalation:	Move subject to fresh air. If breathing difficulty occurs, administer oxygen and consult a physician.
Ingestion:	Do NOT induce vomiting unless directed by medical personnel. Rinse mouth with water and give 1-2 glasses of water. Seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide (CO₂), dry chemical, or alcohol-resistant foam.

Unsuitable Extinguishing Media: High-volume water jet.

Hazardous Combustion Products: Carbon oxides, silicon dioxide (SiO₂), nitrogen oxides (NO_x), formaldehyde trace.

Firefighter Gear: Wear self-contained breathing apparatus (SCBA) and protective suits.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable PPE (goggles, gloves). Ensure adequate ventilation. Floor may become slippery.

Environmental Precautions: Prevent material from entering drains, surface water, or soil groundwater systems.

Clean-Up Procedures: Contain spill with inert absorbent material (sand, silica gel, sawdust). Transfer to sealed chemical waste container for standard disposal.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid direct contact with eyes and prolonged contact with skin. Practice good industrial hygiene. Keep containers closed when not in use.

Storage: Store in original tightly sealed containers between 5°C and 35°C in a dry, well-ventilated area. Protect from freezing and direct heat.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: No established OSHA PEL / ACGIH TLV for this mixture.

Engineering Controls: General dilution ventilation or local exhaust as required.

Personal Protective Equipment (PPE):

- **Eye Protection:** Safety glasses with side shields or chemical goggles.
- **Hand Protection:** Nitrile, neoprene, or PVC rubber gloves.
- **Skin/Body:** Lab coat or protective work garments.
- **Respiratory:** Not required under normal handling conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky white liquid

Odor: Mild characteristic amine

pH (Direct): 5.0 – 6.5

Boiling Point: ~100°C (212°F)

Specific Gravity: 0.98 – 1.01 g/cm³

Viscosity (25°C): 500 – 2500 cPs

Solubility: Water dispersible

Flash Point: > 100°C (Closed Cup)

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage and handling conditions.

Incompatibility: Strong oxidizing agents, strong acids, and strong bases.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral LD50 (Rat) > 2,000 mg/kg (estimated base material). Non-toxic under standard handling.

Skin Corrosion/Irritation: Slight skin irritant upon prolonged direct contact.

Carcinogenicity: Not listed as carcinogenic by IARC, NTP, or OSHA.

SECTION 12 & 13: ECOLOGICAL & DISPOSAL CONSIDERATIONS

Ecological Impact: Silicone portion is bio-inert. Prevent large untamed discharges into aquatic waterways.

Disposal Method: Dispose of in compliance with local, state, and federal chemical waste regulations.

SECTION 14 & 15: TRANSPORT & REGULATORY INFORMATION

DOT / IMDG / IATA Road-Sea-Air Transport: Not classified as dangerous goods (Non-Hazardous for transport).

TSCA / REACH Status: All active components are listed on global commercial inventories.