SAIKA
– ENGINEERED ADDITIVES –

SAFETY DATA SHEET

P8 series – Polymer Processing Aids

1. Identification of the substance/mixture and of the company

- **Product name:** P8 series – **Liquid polymer additives**
- **Recommended use:** Liquid polymer additives for improving processing, homogenization and melt behavior in polyolefin compounds and related industrial applications (industrial use).
- **Uses advised against:** Any non-industrial use or use outside polymer processing.

Manufacturer / Supplier

- Name: **Amin Niroomanesh**
- Address: Tehran, Iran
- E-mail: Amin.Niroomanesh@gmail.com

2. Hazards identification

- Classification (GHS / CLP – provisional):
    - On the basis of information for similar polymer processing aids, the mixture is not currently expected to be classified as hazardous under GHS / CLP (EU) criteria; this classification remains provisional and will be confirmed once more comprehensive data are available.
- Label elements (if not classified):
    - Pictograms: None.
    - Signal word: None.
    - Hazard statements: None.
    - General precautionary statements (good practice):
        - Avoid unnecessary contact with skin and eyes.
        - Avoid inhalation of vapors or mists generated at elevated temperatures.
        - Do not eat, drink or smoke when using this product.
- Other hazards:
    - Prolonged or repeated skin contact may cause mild irritation in sensitive individuals.
    - Thermal decomposition at high temperature may release irritating or combustible vapors.
    - Although not classified as a hazardous preparation, the product is a combustible organic liquid and can burn if exposed to a fire or strong ignition source.

3. Composition/information on ingredients

- Substance / mixture: Mixture.
- General description: Blend of organic components designed as polymer processing aids and homogenizers for polyethylene processing.
- Hazardous components:
    - Exact composition is proprietary and development-stage.
    - Any component classified as hazardous and present above regulatory thresholds will be listed in future, updated SDS versions when full assessment is complete.

4. First aid measures

- General: Remove affected person from exposure. Get medical advice if symptoms persist.
- Inhalation: Move to fresh air. If symptoms (coughing, dizziness, irritation) occur, seek medical attention.
- Skin contact: Remove contaminated clothing. Wash skin with soap and water. If irritation persists, get medical advice.
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation continues.
- Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice if large amounts have been swallowed or if symptoms occur.
- Most important symptoms/effects: Mild irritation of eyes, skin or respiratory tract (vapour/mist at high temperature) may occur.

5. Firefighting measures

- Suitable extinguishing media: Foam, dry chemical, carbon dioxide, water spray.
- Unsuitable extinguishing media: High-pressure water jet may spread burning liquid.

Specific hazards:

- Combustible organic liquid; thermal decomposition may produce carbon oxides and irritating fumes.
- Advice for firefighters:
    - Wear self-contained breathing apparatus and full protective clothing.
    - Cool exposed containers with water spray.

6. Accidental release measures

- Personal precautions: Avoid contact with skin and eyes. Provide adequate ventilation. Use personal protective equipment.

- Environmental precautions: Follow local regulations for disposal of chemical products.

Methods for containment and cleaning up:

- Small spills can be wiped up or absorbed with a suitable material and collected.
- Larger amounts may be recovered mechanically for reuse or disposal according to local regulations.
- After removal of the bulk liquid, the area may be cleaned if necessary.

7. Handling and storage

- Precautions for safe handling:
    - Use in well-ventilated industrial environments.
    - Avoid direct contact with skin and eyes; avoid inhalation of vapors/mists, especially at elevated temperatures.
    - Do not eat, drink or smoke in work areas.
- Conditions for safe storage:
    - Store in tightly closed original containers in a cool, dry and dark place, typically **5–25 °C**.
    - Keep away from heat, open flames, hot surfaces and direct sunlight.
    - Shelf life (unopened, under recommended conditions): typically **6–12 months**.

8. Exposure controls / personal protection

- **Control parameters:** No specific occupational exposure limits are available for this mixture; exposure should be kept as low as reasonably achievable as a matter of good industrial practice.
- **Engineering controls:** Provide general or local exhaust ventilation where vapors or mists may be generated, especially at elevated processing temperatures.
- **Personal protective equipment (recommended):**
    - **Eye/face protection:** Safety glasses with side shields or chemical splash goggles.
    - **Skin protection:** Chemical-resistant gloves (for example nitrile) and suitable work clothing.
    - **Respiratory protection:** Normally not required at room temperature. If ventilation is insufficient, or if vapors/mists are generated at high temperature, use an appropriate respirator in accordance with local regulations.
- **Hygiene measures:**
  Wash hands after handling. Remove any contaminated clothing and wash before reuse. Eating, drinking and smoking should be avoided in work areas where the product is handled.

9. Physical and chemical properties

- Physical state: Liquid
- Color: Pale yellow
- Odor: Mild, characteristic
- Melting point / Freezing point: Approx. **−15 °C** (estimated, mixture)
- Initial boiling point and boiling range: >150 °C (typical for organic liquid blends; exact value not determined)
- Flash point: Typically >60 °C (closed cup; exact value per grade, when available)
- Evaporation rate: **Moderate** at room temperature; volatile components evaporate within minutes under normal conditions (no exact numerical data).
- Flammability: Combustible liquid
- Vapor pressure: **Moderate volatility** at ambient temperature; exact vapor-pressure data not determined.
- Relative density (20 °C): Approx. **0.83 ± 0.03 g/cm³**
- Solubility in water: **Not soluble in water**
- Partition coefficient n-octanol/water: No data available
- Viscosity (20 °C): Approx. 10–60 mPa·s (range, depending on grade)
- Explosive / oxidizing properties: Not expected to be explosive or oxidizing based on composition.

10. Stability and reactivity

- Reactivity: No hazardous reactivity expected under recommended storage and use conditions.
- Chemical stability: Stable under normal temperature and recommended storage conditions.
- Possibility of hazardous reactions: No dangerous reactions known in normal processing; avoid contact with strong oxidizers.
- Conditions to avoid: Excessive heat, open flames, hot surfaces, direct sunlight.
- Incompatible materials: Strong oxidizing agents; strong acids or bases may affect stability.
- Hazardous decomposition products: Carbon monoxide, carbon dioxide and organic vapors/fumes in case of fire or high-temperature decomposition.

11. Toxicological information

- Likely routes of exposure: Skin and eye contact; inhalation of vapors/mists at elevated temperatures; ingestion (accidental).
- Acute toxicity: No specific acute toxicity data for the mixture; based on similar products, low acute toxicity is expected under normal industrial use.

- Skin corrosion/irritation: Prolonged or repeated contact may cause mild irritation.
- Serious eye damage/eye irritation: May cause temporary irritation.
- Respiratory or skin sensitization: No data available; sensitization not expected based on typical components in processing aids.
- Other data (CMR etc.): No components currently known or intended to be CMR at typical concentrations, based on available information for similar products.

12. Ecological information

- Ecotoxicity: No test data available for the mixture; similar organic processing aids are generally not acutely highly toxic to aquatic organisms at typical environmental concentrations, but releases should be minimised.
- Persistence and degradability: Contains organic components; some may be biodegradable, others more persistent. Detailed data depend on final composition.
- Bioaccumulative potential: Significant bioaccumulation is not expected for most components used in typical processing aids, but detailed assessment is pending.
- Mobility in soil: Low water solubility; likely to remain associated with soils, sediments or organic matter.
- Other adverse effects: Avoid uncontrolled release to the environment.

13. Disposal considerations

- Product: Dispose of waste and residues in accordance with local/regional regulations. Incineration in an approved facility is usually preferred for organic liquids.
- Contaminated packaging: Empty containers thoroughly. Dispose of or recycle packaging according to local regulations. Do not reuse uncleaned containers for other materials without washing.

14. Transport information

(Based on non-hazardous classification assumption; update if classification changes.)

- UN number: Not regulated as dangerous goods if not classified.
- UN proper shipping name: Not applicable.
- Transport hazard class(es): Not applicable.
- Packing group: Not applicable.
- Environmental hazards: Not classified as marine pollutant.
- Special precautions: Avoid extreme temperatures and mechanical damage to containers during transport.

SAIKA
– ENGINEERED ADDITIVES –

15. Regulatory information

- Safety, health and environmental regulations specific for the mixture:
    - As a personally developed product, regulatory status will depend on tonnage and market placement. Ensure compliance with any applicable national chemical registration or notification schemes before commercial supply.
    - Labelling and SDS content should be updated if future hazard classification identifies any specific health or environmental hazards.
- Chemical safety assessment:
    - A formal chemical safety assessment has not yet been carried out for this development-stage product.

16. Other information

- SDS version: 1.1
- Date of issue: May 2026
- Prepared by: **Amin Niroomanesh (Tehran, Iran)**

Disclaimer
This Safety Data Sheet has been prepared by the product’s inventor based on available information for similar polymer processing aids and on limited physical data measured at small scale. It is intended as a preliminary guidance document for R&D and pilot-scale industrial use only and will be updated as more detailed composition, toxicological and regulatory data become available. Users are responsible for assessing suitability for their specific processes and for complying with all applicable laws and regulations.