



Material Safety Data Sheet (MSDS) — Aromatic Rubber Process Oil (Aromatic RPO)

Product Name: Aromatic Rubber Process Oil (Aromatic RPO)

Supplier/Manufacturer: Basekim Chemical Production Co., UAE / Turkey

Recommended Use: Used in rubber compounding, tire manufacturing, conveyor belts, and various rubber products as a softener and processing aid.

1. Identification

- **Synonyms:** Aromatic RPO, Aromatic Extract Oil, Rubber Process Oil (Aromatic Type)
- **Chemical Family:** Hydrocarbon oil mixture derived from solvent extract of lube refining process
- **CAS Number:** 64742-11-6
- **EC Number:** 265-116-8

2. Hazard Identification

- **Classification (GHS):**
 - Aspiration Hazard (Category 1)
 - Skin Irritation (Category 2)
 - Eye Irritation (Category 2B)
- **Signal Word:** DANGER
- **Hazard Statements:**
 - H304: May be fatal if swallowed and enters airways.
 - H315: Causes skin irritation.
 - H320: Causes eye irritation.
- **Precautionary Statements:**
 - Avoid breathing mist or vapors.
 - Use gloves and protective eyewear.
 - Do not eat, drink, or smoke while handling.
 - Wash thoroughly after handling.
 - If swallowed: Do NOT induce vomiting; seek immediate medical attention.



3. Composition / Information on Ingredients

Component	CAS Number	Concentration (%)
Aromatic Hydrocarbon Extracts	64742-11-6	95–100

Contains polycyclic aromatic hydrocarbons (PAHs) typical of aromatic extracts but within permitted industrial limits.

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if symptoms persist.
- **Skin Contact:** Remove contaminated clothing. Wash skin with soap and water.
- **Eye Contact:** Rinse thoroughly with clean water for at least 15 minutes.
- **Ingestion:** Do not induce vomiting. Call a physician or poison center immediately.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide, water spray.
- **Specific Hazards:** Combustion may produce CO, CO₂, and dense black smoke.
- **Flash Point:** >180°C (COC).
- **Protective Equipment:** Self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

- Stop leaks if safe to do so.
- Prevent entry into drains or watercourses.
- Absorb with sand, earth, or suitable absorbent material.
- Collect and store in containers for disposal according to local regulations.

7. Handling and Storage

- Handle with care, avoid contact with skin and eyes.
- Use in well-ventilated areas.



- Store in tightly closed containers in cool, dry, and well-ventilated areas away from heat and direct sunlight.
- Keep away from strong oxidizing agents.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate local exhaust ventilation required.
- **Personal Protection:**
 - **Eye/Face:** Safety goggles or face shield.
 - **Skin:** Nitrile or neoprene gloves.
 - **Respiratory:** Organic vapor respirator if ventilation inadequate.
- **Occupational Exposure Limits:**
 - Oil mist, mineral: 5 mg/m³ (TWA, ACGIH).

9. Physical and Chemical Properties

Property	Value / Range
Appearance	Dark brown to black viscous liquid
Odor	Mild aromatic petroleum odor
Density @ 15°C	0.950 – 1.030 g/cm ³
Kinematic Viscosity @ 40°C	70 – 120 cSt
Flash Point (COC)	>180°C
Pour Point	-5 to +10°C
Aniline Point	<60°C
Sulfur Content	<1%
Solubility	Insoluble in water, soluble in hydrocarbons

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents.
- **Decomposition Products:** Carbon monoxide, carbon dioxide, hydrocarbons.
- **Conditions to Avoid:** Excessive heat and open flames.



11. Toxicological Information

- **Acute Toxicity:** Low; may cause irritation to eyes and skin.
- **Inhalation:** Prolonged exposure to vapors may cause dizziness.
- **Ingestion:** May cause lung damage if aspirated.
- **Skin Contact:** Prolonged or repeated contact can defat skin.
- **Chronic Effects:** Contains low levels of PAHs; prolonged exposure should be minimized.

12. Ecological Information

- **Ecotoxicity:** May cause long-term effects in aquatic environments.
- **Persistence:** Slowly biodegradable.
- **Bioaccumulation:** Possible due to hydrocarbon nature.
- **Mobility:** Low in water; floats on surface.

13. Disposal Considerations

- Dispose according to local environmental regulations.
- Do not discharge into drains or water bodies.
- Empty containers may retain residues; handle as hazardous.

14. Transport Information

- **UN Number:** Not regulated for land transport.
- **Proper Shipping Name:** Non-hazardous petroleum oil.
- **Transport Hazard Class:** Not classified.
- **Packing Group:** Not applicable.

15. Regulatory Information

- Classified according to GHS and REACH guidelines.
- Ensure compliance with local chemical safety regulations.



16. Other Information

- **Revision Date:** [10/12/2025]
- **Prepared By:** Basekim Technical / Safety Department