



**Jordan Petroleum Refinery Company LTD.
Safety and Environment Department
Material Safety Datasheet : ASPHALT 60/70**

Section 1: Product and Company Identification

Product Name : Penetration Graded Asphalt 60/70
MSDS Number: JPRC PR-13
Company: Jordan Petroleum Refinery Company LTD.
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Section 2: Composition / Information on ingredients

Component	CAS Number	%
Asphalt	8052-42-4	100%

Section 3: Hazard Identification

- Thermal decomposition products are highly dependent on the combustion conditions. A complex mixture of airborne solid, liquid, particulates and gases will evolve when this material is combusted.
- Carbon Monoxide, Hydrogen Sulfide and other compounds may be formed upon combustion.

- Potential acute health effects

Eye contact : Heated material can cause thermal burns.

Skin contact : Severe thermal burns.

Inhalation : Inhalation of vapors (generated at elevated temperatures) or oil mists can cause irritation to the nose and throat as well as nausea.

Section 4: First Aid Measures

Eye contact : Flood eyes with plenty of water for at least 15 minutes .If irritation persists, obtain medical attention.

Skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposure to hydrogen sulphide is suspected or cannot be excluded, obtain medical attention IMMEDIATELY.



Section 5: Firefighting Measures

- Suitable extinguishing media : Use dry chemical, CO₂, alcohol-resistant foam or water spray. Use water to keep fire-exposed containers cool.
- Unsuitable extinguishing media : Do not use water jet.
- Special Fire Fighting Procedures : Since fire may produce toxic fumes, wear a self-contained breathing apparatus with a full-face piece operated in the pressure-demand or positive pressure mode. Wear protective clothing and face and eye protection when handling hot asphalt. If feasible, move containers from fire hazard since they may explode in the heat of the fire. Otherwise, use water spray to cool fire-exposed containers. Be aware of runoff from fire control methods. Do not release to sewers or waterways since it may create a fire hazard and cause pollution.
- Fire and explosion hazards : Can form combustible mixtures with air when heated.

Section 6: Accidental Release Measures

- For non-emergency personnel : Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Hot material: Avoid contact with eyes, skin and clothing.
- Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill : Move containers from spill area. Prevent entry into sewers, watercourses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7: Handling and storage

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from strong oxidizing materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Provide adequate ventilation.



Section 8: Exposure controls / Personal protection

- Occupational exposure limit of Asphalt : **ACGIH TLV (United States, 2/2010).**
TWA: 0.5 mg/m³, (as benzene soluble aerosol) 8 hour(s). Form: Inhalable fraction.
- Respiratory protection : When exposed or likely to be exposed to fume, vapor, or dust (from cutting, grinding, crushing or drilling hardened asphalt) above recommended limits, wear a suitable NOISH-approved respirator with a protection factor appropriate for the level of exposure. Seek guidance from a qualified industrial hygienist, safety professional, or other suitable knowledgeable individual prior to respirator selection and use. For emergency or no routine operations (e.g. confined spaces), additional precautions or equipment may be required. Respirator use must comply with applicable MSHA or OSHA standards, which include provisions for a user-training program, respirator repair and cleaning, respirator fit testing, and other requirements.
- Eye protection : Wear safety glasses, chemical goggles or face shield if contact is likely.
- Skin protection : Chemically resistant impervious gloves, boots, suits and other items should preferably be pvc, neoprene or nitrile rubber to be used. Safety showers should be available for use.
- Work/hygiene practices : If contamination occurs, change clothing and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse. Ensure a high level of personal hygiene is maintained. Always wash hands before eating, drinking, smoking or using the toilet.
- Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9: Physical and Chemical Properties

- Appearance : Brown to black, Solid at ambient temperature, viscous liquid when heated.
- Odor : Characteristic sour, tar-like odor
- Solubility in Water : Insoluble in cold water.
- Solubility in Trichloroethylene : >99.0 mass%
- Flash Point : >230° C (>450°F).



Section 10: Stability and Reactivity

- Reactivity : No specific test data related to reactivity available for this product or its ingredients
- Chemical stability : The product is stable
- Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
- Incompatible materials : Strong oxidizing materials

Section 11: Toxicological information

Product/ ingredient name	Result	Species	Dose
Asphalt	LD50 Dermal	Rabbit	>2000 mg/kg

Section 12: Ecological information

Toxicity:

Product/ingredient name	Result	Species	Exposure
Asphalt	Acute EC50 >1000 mg/l Fresh water	Algae	٧٢ hours

Section 13: Disposal Considerations

Recover as much spilled material as possible for reuse or recycling.
Disposal of waste material must be performed in accordance with Ministry of Environment regulations.

Section 14: Transport information

Transport of this product is carried out in compliance with local legislation, taking into account safety and environmental precautions.

Section 15: Regulatory information

This material safety datasheet is based on Jordanian Technical Regulation # JS 612:2019 for Asphalt-Penetration Graded Asphalt Binder for Use in Pavement Construction , and OSHA Requirements.

Section 16: Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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