



**Jordan Petroleum Refinery Company LTD.
Safety and Environment Department**

Material Safety Datasheet: ASPHALT RC-800

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

Product name : Cut back Asphalt RC-800
MSDS Number : PR-09
Company : Jordan Petroleum Refinery Company LTD.
Amman – Jordan.
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SECTION 2: HAZARDS IDENTIFICATION.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Hazard statement : May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary statement :

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves: > 8 hours (breakthrough time): Recommended: Wear heat resistant gloves when used at elevated temperatures.. Wear eye or face protection. Wear protective clothing. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Product may release hydrogen sulfide: a specific assessment of inhalation risks from the presence of hydrogen sulfide in tank headspaces, confined spaces, product residue, tank waste and waste water and unintentional releases should be made to help determine controls appropriate to local circumstances.

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Disposal : Dispose of contents and container in accordance with local regulations.

Supplemental label elements: Avoid contact with skin and clothing. Wash thoroughly after handling. Heated material can cause thermal burns.



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Hazards not otherwise classified: Prolonged or repeated contact may dry skin and cause irritation. May release hydrogen sulfide a poisonous gas that can accumulate in confined spaces

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS.

Substance/Mixture : Mixture
Composition :
information

| Component Name | CAS Number | % (vol.) |
|----------------|------------|----------|
| Asphalt | 8052-42-4 | 75-85 |
| Naphtha | 8030-30-6 | 10-15 |
| Kerosene | 8008-20-6 | 5-10 |

SECTION 4: FIRST AID MEASURES.

Inhalation : Move exposed person to fresh air. If breathing has stopped, perform artificial respiration.

Skin : If clothing soaked, immediately remove clothing and wash skin with soap and water. Launder clothing before wearing. For thermal burn: cool, flush with water, wrap with sterile dressing and apply cold pack. Get medical attention promptly.

Eyes : Immediately flush eyes with water for a minimum of 15 minutes, occasionally lifting the lower and upper lids. Get medical attention promptly.

Ingestion : Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed Potential acute health effects :

Eye contact : Causes eye irritation.

Inhalation : Mist/high concentrations: Inhalation may cause irritation to the nose, throat, upper respiratory tract and lungs.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Ingestion : May be irritating to mouth, throat and stomach.



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SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use foam, dry chemical, or carbon dioxide to fight fire.
- Unsuitable extinguishing media : Don't use water jet
- Specific hazards arising from the chemical : No specific fire or explosion hazard. May release hydrogen sulfide a poisonous gas that can accumulate in confined spaces.
- Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides.
- Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- For emergency responders : Notify emergency response personnel. Evacuate area and remove ignition sources. Build dike to contain flow. Remove free liquid, do not flush to sewer or open water. Pick up with inter absorbent and place in closed container for disposal.

SECTION 7. HANDLING AND STORAGE

- Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (strong oxidizers) 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.



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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Main ingredient | Exposure limit |
|-----------------|--|
| Asphalt | - ACGIH TLV (United States, 4/2014): TWA: 0.5 mg/m ³ , (as benzene soluble aerosol) 8 hours. Form: Inhalable fraction - NIOSH REL (United States, 10/2013): CEIL: 5 mg/m ³ 15 minutes. Form: Fume |

Individual protection measures :

- 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 (mentioned above) , 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.
- Eye protection : Wear safety glasses, chemical goggles or face shield as appropriate.
- Skin Protection : Gloves, long-sleeved shirt and cuff less trousers to protect from heated asphalt.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------|---|
| Appearance | Brown to black, semi-solid at ambient temperature. Liquid at high temperature. |
| Odor | Asphalt or rotten egg. |
| Kinematic Viscosity @ 60 °C | 800 – 1600 cSt. |
| Flash Point: | > 80 °F |
| Density @ 15°C | 0.9700-0.9788 g/ml |

SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid** : Heat, Flames and Sparks.



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| Materials to avoid | : Strong acids and oxidizing agents. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |

SECTION 11. TOXICOLOGICAL INFORMANTION

Acute oral toxicity: LD50 rat
Dose: 5,001 mg/kg

Acute dermal toxicity: LD50 rat
Dose: 2,001 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

This product is estimated to have a slow rate of biodegradation. This product is not expected to bioaccumulate through food chains in the environment. Analysis for ecological effects has not been conducted on this product. Spills into water ways may be harmful to organisms and groundwater.

SECTION 13. DISPOSAL CONSIDERATIONS

Recover as much spilled material as possible for reuse or recycling.
Disposal of waste material must be conducted in accordance with ministry of environment regulations.

SECTION 14. REGULATORY INFORMATION

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 15. TRANSPORTATION INFORMATION

This product is transported according to related Jordanian laws and legislations.

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.

Prepared by : Safety and Environment Department
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