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Cutback Bitumen MC 250 MSDS

1. Product Identification

Item	Information
Product Name	Cutback Bitumen MC 250
Alternative Name	MC 250 Bitumen / MC 250 Cutback Asphalt
Product Type	Medium-Curing Cutback Bitumen
Recommended Use	Road construction, surface treatment, maintenance mixes, patching and pavement applications
Appearance	Black to dark brown viscous liquid
Odor	Petroleum / hydrocarbon odor

2. Hazard Identification

Cutback Bitumen MC 250 contains asphalt binder and volatile petroleum components. Handle the product carefully during storage, transportation, heating and application.

Main Hazards

- Flammable or combustible liquid and vapor
- May cause skin irritation
- Vapors may irritate the respiratory system
- Hot material may cause serious thermal burns
- Vapor accumulation may create a fire or explosion hazard
- Prolonged or repeated exposure to asphalt fumes should be minimized

Signal Word

Warning / **Danger**, depending on the exact formulation and supplier SDS classification.

3. Composition / Information on Ingredients

Component	Typical Description
Petroleum Asphalt / Bitumen	Main binder component
Petroleum Distillate / Hydrocarbon Solvent	Medium-volatility diluent
CAS – Asphalt	8052-42-4
Exact Composition	Depends on manufacturer and production batch

The exact solvent percentage may vary according to the required MC 250 viscosity and production formulation.

4. First-Aid Measures

Inhalation

Move the affected person to fresh air immediately. Keep the person at rest and seek medical attention if coughing, dizziness, breathing difficulty or irritation continues.

Skin Contact

For unheated material, wash the affected area thoroughly with soap and water.

For hot material, cool the affected area immediately with clean running water. Do not attempt to remove solidified bitumen from burned skin. Seek medical attention.

Eye Contact

Rinse carefully with clean water for at least 15 minutes. Remove contact lenses if easy to do. Seek medical advice if irritation continues.

Ingestion

Do not induce vomiting. Rinse the mouth and obtain immediate medical advice.

5. Fire-Fighting Measures

Suitable Extinguishing Media

Use:

- Dry chemical powder
- Foam
- Carbon dioxide
- Water fog for cooling exposed containers

Do not use a strong direct water jet on burning product because it may spread the burning material.

Specific Hazards

Burning MC 250 may produce:

- Carbon monoxide
- Carbon dioxide
- Hydrocarbon fumes
- Smoke
- Irritating combustion products

Firefighters should wear suitable protective equipment and self-contained breathing apparatus where necessary.

6. Accidental Release Measures

Keep unauthorized personnel away from the spill area.

Eliminate flames, sparks, smoking materials and other ignition sources.

Use appropriate PPE.

Prevent the material from entering drains, waterways, soil or sewage systems.

Contain spilled material with suitable non-combustible absorbent materials such as:

- Sand
- Earth
- Vermiculite
- Commercial absorbent

Collect contaminated material in approved containers for recovery or disposal according to local regulations.

7. Handling and Storage

Handling

- Use only in adequately ventilated areas.
- Avoid breathing vapor, mist or fumes.
- Avoid prolonged skin and eye contact.
- Keep away from flames, sparks and hot surfaces.
- Do not smoke during handling.
- Use suitable pumps and transfer equipment.
- Prevent static electricity during transfer.
- Keep containers closed when not in use.

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Storage

Store MC 250 in properly designed tanks, drums or containers.

Keep the product:

- Away from ignition sources
- Away from strong oxidizing agents
- In a cool and well-ventilated storage area
- Protected from unnecessary heating
- In tightly closed containers

Do not overheat the product.

8. Exposure Controls / Personal Protection

Engineering Controls

Provide adequate general and local exhaust ventilation, particularly during heating, spraying or transfer operations.

Personal Protective Equipment

Eye Protection:
Wear chemical-resistant safety glasses or goggles.

Hand Protection:
Use suitable hydrocarbon-resistant protective gloves.

Skin Protection:
Wear protective work clothing, long sleeves and safety footwear.

Respiratory Protection:
Use suitable respiratory protection where ventilation cannot maintain vapor or fume concentrations within applicable occupational exposure limits.

For Heated Product:
Use heat-resistant gloves, face protection and suitable protective clothing.

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9. Physical and Chemical Properties

Property	Typical Information
Physical State	Viscous liquid
Color	Black / dark brown
Odor	Petroleum hydrocarbon odor
Kinematic Viscosity at 60°C	250–500 mm²/s
Flash Point	Minimum approximately 66°C, according to applicable MC 250 specification
Water Solubility	Insoluble
Density	Batch and temperature dependent
Evaporation	Petroleum solvent fraction gradually evaporates
Residue	Asphalt binder remains after curing

Actual physical properties should be verified against the supplier's latest Certificate of Analysis and Technical Data Sheet.

10. Stability and Reactivity

Chemical Stability

Stable under recommended storage and handling conditions.

Conditions to Avoid

Avoid:

- Open flames
- Sparks
- Static discharge
- Excessive heating
- High-energy ignition sources

Incompatible Materials

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition or combustion may produce:

- Carbon monoxide
- Carbon dioxide
- Hydrocarbon vapors
- Irritating smoke

11. Toxicological Information

Possible routes of exposure include:

- Inhalation
- Skin contact
- Eye contact
- Accidental ingestion

Potential Health Effects

Inhalation:
High vapor or fume concentrations may cause headache, dizziness, nausea or respiratory irritation.

Skin Contact:
Repeated or prolonged contact may cause irritation or dermatitis.

Eye Contact:
Vapors, splashes or fumes may cause irritation.

Hot Product:
Contact with heated material may cause severe thermal burns.

Exposure to asphalt fumes and petroleum solvent vapors should be minimized through good ventilation and proper PPE.

12. Ecological Information

Do not release Cutback Bitumen MC 250 into:

- Surface water

- Groundwater
- Drainage systems
- Soil

Petroleum hydrocarbons may negatively affect aquatic organisms and the environment.

Prevent uncontrolled releases during storage, transport and application.

13. Disposal Considerations

Dispose of product residues, contaminated absorbents and packaging according to applicable local, national and environmental regulations.

Do not discharge the product into drains, rivers or soil.

Where possible, use approved recovery or recycling methods.

14. Transport Information

Cutback bitumen containing petroleum solvent may be regulated as hazardous material during transport.

Transport classification can depend on:

- Exact formulation
- Flash point
- Packaging
- Quantity
- Transport mode
- National regulations

Before shipment, confirm the appropriate:

- UN classification
- Proper shipping name
- Hazard class
- Packing group
- Marine pollution status

with the current supplier SDS and applicable transport regulations.

15. Regulatory Information

Users should comply with applicable regulations regarding:

- Occupational exposure
- Flammable liquids
- Petroleum products
- Environmental protection
- Storage
- Transportation
- Waste disposal

Requirements may vary by destination country.

16. Other Information

This MSDS provides general safety information for **Cutback Bitumen MC 250** and can support website product information.

Actual hazard classification, composition, transport details and occupational exposure limits may vary according to the producer, solvent formulation, country and production batch.

For commercial shipment or workplace use, always refer to the manufacturer's current official Safety Data Sheet, Certificate of Analysis and applicable local regulations.