



MATERIAL SAFETY DATA SHEET (MSDS)

BITUMEN RC-30

Product Name: Bitumen RC-30

Other Names: RC-30 Cutback Bitumen, Rapid Curing Cutback Asphalt RC-30

Product Type: Rapid Curing Cutback Bitumen

Recommended Use: Prime coating, road construction, surface treatment, penetration treatment and asphalt applications.

1. Identification of the Substance / Mixture and Company

Product Name: Bitumen RC-30

Chemical Family: Petroleum Hydrocarbon / Cutback Asphalt

Appearance: Dark brown to black liquid

Odor: Petroleum / hydrocarbon odor

Intended Use: Road paving, prime coat and surface treatment applications.

Emergency Advice:

In case of serious exposure, fire or accidental ingestion, seek immediate medical assistance.

2. Hazards Identification

Classification

Bitumen RC-30 contains petroleum-based volatile solvents and may be classified as a **flammable liquid**.

Main Hazards

- Flammable liquid and vapor.
- Vapors may cause dizziness or drowsiness.
- May cause irritation to skin and eyes.
- Prolonged or repeated skin contact may cause dryness or dermatitis.
- Inhalation of high concentrations of vapor may affect the respiratory system and central nervous system.
- Hot product may cause severe thermal burns.
- Vapors may form explosive mixtures with air.
- Harmful to aquatic environments if released in large quantities.

Precautionary Statements

- Keep away from heat, sparks, flames and hot surfaces.
- No smoking near the product.
- Use only in well-ventilated areas.
- Avoid breathing vapors or mist.
- Wear suitable protective gloves, clothing and eye protection.
- Prevent release into drains, soil and waterways.

3. Composition / Information on Ingredients

Bitumen RC-30 is generally a mixture of penetration-grade bitumen and volatile petroleum solvents.



Component	Approximate Content
Petroleum Bitumen / Asphalt	60–80%
Petroleum Distillate / Hydrocarbon Solvent	20–40%

CAS Number – Bitumen: 8052-42-4

CAS Number – Petroleum Distillates: May vary according to the solvent used by the manufacturer.

Actual composition may vary according to product formulation and applicable specifications.

4. First Aid Measures

Inhalation

Move the exposed person to fresh air immediately.

Keep the person at rest and comfortable for breathing.

If dizziness, headache, breathing difficulty or other symptoms continue, obtain medical attention.

Skin Contact

For cold material:

- Remove contaminated clothing.
- Wash affected skin thoroughly with soap and water.

For hot material:

- Cool the affected area immediately with plenty of clean water.
- Do not attempt to remove solidified bitumen from the skin.
- Do not use solvents to remove bitumen.
- Seek medical assistance for thermal burns.

Eye Contact

Rinse eyes carefully with clean water for at least 15 minutes.

Remove contact lenses if easily possible.

Seek medical attention if irritation continues.

Ingestion

Do **not** induce vomiting.

Rinse mouth with water.

Never give anything by mouth to an unconscious person.

Seek immediate medical attention because aspiration of hydrocarbon solvent into the lungs may cause serious injury.

5. Fire-Fighting Measures

Suitable Extinguishing Media

- Dry chemical powder
- Carbon dioxide (CO₂)
- Foam
- Water fog

Unsuitable Extinguishing Media



Do not use a strong direct water jet, as it may spread the burning product.

Specific Hazards

Combustion may produce:

- Carbon monoxide
- Carbon dioxide
- Hydrocarbon fumes
- Smoke and irritating combustion products

Vapors may travel along the ground and ignite at a distant ignition source.

Protective Equipment for Firefighters

Firefighters should wear:

- Self-contained breathing apparatus
- Full protective clothing
- Heat-resistant equipment where required

Cool exposed containers using water spray.

6. Accidental Release Measures

Personal Precautions

- Eliminate all ignition sources.
- Stop smoking in the affected area.
- Ensure adequate ventilation.
- Avoid inhalation of vapors.
- Avoid direct skin and eye contact.
- Wear appropriate personal protective equipment.

Environmental Precautions

Prevent the product from entering:

- Sewers
- Drains
- Rivers
- Groundwater
- Soil

Spill Cleanup

Contain the spill using:

- Sand
- Earth
- Vermiculite
- Other non-combustible absorbent material

Collect contaminated absorbent material in suitable labeled containers for proper disposal. For large spills, contact appropriate environmental and emergency authorities.

7. Handling and Storage

Handling

- Handle in well-ventilated areas.
- Avoid breathing vapor, fumes and mist.



- Avoid prolonged skin contact.
- Keep away from sparks, flames and other ignition sources.
- Use explosion-protected electrical equipment where appropriate.
- Take precautions against static electricity.
- Do not smoke while handling the product.
- Keep containers closed when not in use.

Storage

Store in:

- A cool, dry and well-ventilated location
- Approved hydrocarbon storage tanks or containers
- Areas away from heat and direct sunlight

Keep away from:

- Oxidizing agents
- Open flames
- Sparks
- Hot surfaces
- Incompatible chemicals

Containers should be properly grounded and bonded during transfer operations.

8. Exposure Controls / Personal Protection**Engineering Controls**

Provide adequate general and local exhaust ventilation.

Maintain vapor concentrations below applicable occupational exposure limits.

Respiratory Protection

Where ventilation is insufficient or vapor concentrations are high, use an approved respirator suitable for organic vapors.

Hand Protection

Wear hydrocarbon-resistant gloves such as:

- Nitrile gloves
- Neoprene gloves

For handling hot product, use heat-resistant gloves.

Eye Protection

Use:

- Safety goggles
- Chemical splash goggles
- Face shield where splash risk exists

Skin and Body Protection

Wear:

- Long-sleeved protective clothing
 - Safety footwear
 - Chemical-resistant clothing when necessary
 - Heat-resistant protective clothing for hot handling
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9. Physical and Chemical Properties

Property	Typical Description
Physical State	Liquid
Appearance	Dark brown to black
Odor	Petroleum / hydrocarbon
Solubility in Water	Insoluble
Density	Typically below or around 1.0 g/cm ³ , depending on formulation
Flammability	Flammable
Evaporation	Solvent component evaporates during curing
Flash Point	Depends on solvent formulation
Boiling Range	Depends on petroleum solvent
Viscosity	Low-viscosity cutback bitumen
Water Content	Normally low
pH	Not applicable

Typical RC-30 properties should be confirmed using the relevant ASTM or national product specification.

10. Stability and Reactivity

Chemical Stability

Stable under normal recommended conditions of storage and handling.

Conditions to Avoid

Avoid:

- Heat
- Sparks
- Open flames
- Static discharge
- Excessive temperatures

Incompatible Materials

Keep away from:

- Strong oxidizing agents
- Strong acids where incompatible
- Reactive chemicals

Hazardous Decomposition Products

Thermal decomposition or combustion may produce:

- Carbon monoxide
- Carbon dioxide
- Hydrocarbon vapors
- Smoke
- Irritating fumes



11. Toxicological Information

Acute Effects

Inhalation:

High vapor concentrations may cause:

- Headache
- Dizziness
- Drowsiness
- Nausea
- Respiratory irritation

Skin Contact:

May cause irritation, dryness and dermatitis after prolonged or repeated exposure.

Eye Contact:

Vapors or liquid contact may cause redness, irritation and discomfort.

Ingestion:

May cause gastrointestinal irritation.

Aspiration of petroleum solvent into the lungs during swallowing or vomiting can cause serious chemical pneumonitis.

Chronic Effects

Repeated occupational exposure to petroleum hydrocarbons may cause skin irritation and other adverse health effects.

Proper industrial hygiene should always be maintained.

12. Ecological Information

Bitumen RC-30 should not be discharged directly into the environment.

The hydrocarbon solvent component may be harmful to aquatic organisms.

Large spills may contaminate:

- Soil
- Surface water
- Groundwater

The bituminous portion has low water solubility and may persist in the environment.

Prevent uncontrolled environmental release.

13. Disposal Considerations

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

Do not dispose of the product into:

- Drains
- Waterways
- Soil

Where permitted, product residues may be handled through an approved waste recovery or disposal facility.

Empty containers may contain flammable vapors and must not be:



- Cut
- Welded
- Drilled
- Burned
- Pressurized

unless properly cleaned and declared safe.

14. Transport Information

Bitumen RC-30 contains flammable petroleum solvents and may be regulated as dangerous goods for transport.

Transport classification depends on:

- Actual flash point
- Solvent composition
- Packaging
- Transport mode
- Applicable national and international regulations

Typical transport considerations may include classification as a **flammable liquid / petroleum-based cutback asphalt**.

Before shipment, confirm the appropriate:

- UN Number
- Proper Shipping Name
- Hazard Class
- Packing Group
- Marine Pollutant status

using the actual product specification and current ADR, IMDG or IATA requirements.

15. Regulatory Information

The product should be handled according to applicable regulations concerning:

- Flammable liquids
- Petroleum products
- Occupational exposure
- Transportation of dangerous goods
- Environmental protection
- Chemical storage

Applicable legislation varies by country and jurisdiction.

16. Other Information

Product: Bitumen RC-30

Type: Rapid Curing Cutback Bitumen

This Safety Data Sheet provides general safety information for the handling, storage, transportation and use of Bitumen RC-30.

Because Bitumen RC-30 formulations may contain different petroleum solvents, important parameters including **flash point, solvent concentration, UN classification and transport**



category must be confirmed from the manufacturer's actual formulation and laboratory data.

Users are responsible for ensuring compliance with applicable occupational health, environmental, storage and transport regulations.

Document: Material Safety Data Sheet – Bitumen RC-30

