



Refined Naphthalene MSDS

1. Identification

Product Name: Refined Naphthalene

Chemical Name: Naphthalene

Chemical Formula: C₁₀H₈

CAS Number: 91-20-3

Recommended Use: Industrial chemical intermediate and raw material

2. Hazard Identification

Refined Naphthalene is a combustible aromatic hydrocarbon. Exposure to dust or vapors may cause adverse health effects.

Potential hazards include:

- Harmful if swallowed
- Harmful if inhaled in significant concentrations
- May cause skin irritation
- May cause eye irritation
- Combustible solid
- Vapors may form hazardous concentrations in poorly ventilated areas
- Prolonged or repeated exposure may affect health

Always consult the current supplier SDS and applicable local regulations for official hazard classifications and labeling.

3. Composition / Information on Ingredients

Component	CAS Number	Concentration
Naphthalene	91-20-3	Typically 99.0–99.5%

Minor impurities may vary depending on the production process and grade.

4. First Aid Measures

Eye Contact

Immediately rinse eyes carefully with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation continues.



Skin Contact

Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical advice if irritation develops.

Inhalation

Move the exposed person to fresh air. Keep the person comfortable for breathing. Seek medical attention if symptoms develop or persist.

Ingestion

Rinse the mouth. Do not induce vomiting unless instructed by medical personnel. Seek medical attention promptly.

5. Fire-Fighting Measures

Suitable Extinguishing Media

Use:

- Dry chemical powder
- Carbon dioxide
- Foam
- Water fog where appropriate

Specific Hazards

Naphthalene is combustible. Heating may generate flammable or irritating vapors. Combustion can produce carbon monoxide and carbon dioxide.

Protective Equipment

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

6. Accidental Release Measures

- Keep unnecessary personnel away from the affected area.
- Remove ignition sources.
- Provide adequate ventilation.
- Avoid generating dust.



- Wear suitable personal protective equipment.
- Collect spilled material using non-sparking tools where appropriate.
- Place recovered material in suitable labeled containers.
- Prevent large quantities from entering drains, soil, or waterways.

7. Handling and Storage

Handling

- Avoid breathing dust and vapors.
- Avoid direct contact with eyes and skin.
- Use adequate ventilation.
- Keep away from heat, flames, and sparks.
- Wash hands after handling.
- Do not eat, drink, or smoke in handling areas.

Storage

Store in tightly closed packaging in a cool, dry, and well-ventilated place.

Keep away from:

- Open flames
- Heat sources
- Strong oxidizing agents
- Direct sunlight

8. Exposure Controls / Personal Protection

Engineering Controls

Use local exhaust ventilation or other suitable ventilation systems in areas where dust or vapors may accumulate.

Personal Protective Equipment

Eye Protection: Safety glasses or chemical goggles

Hand Protection: Chemical-resistant gloves

Skin Protection: Appropriate protective clothing

Respiratory Protection: Suitable respiratory protection where ventilation is insufficient



9. Physical and Chemical Properties

Property	Typical Value
Appearance	White to Off-White Crystalline Solid
Odor	Characteristic Aromatic Odor
Molecular Formula	C ₁₀ H ₈
Molecular Weight	128.17 g/mol
Melting Point	Approx. 80°C
Boiling Point	Approx. 218°C
Density	Approx. 1.14 g/cm ³
Water Solubility	Very Low
Physical State	Solid
Flammability	Combustible

10. Stability and Reactivity

Refined Naphthalene is generally stable under recommended handling and storage conditions.

Avoid:

- Excessive heat
- Flames
- Sparks
- Strong oxidizing agents

Thermal decomposition or combustion may produce carbon oxides and irritating fumes.

11. Toxicological Information

Exposure may occur through:

- Inhalation
- Ingestion
- Skin contact
- Eye contact

Possible effects include:

- Eye irritation



- Skin irritation
- Headache
- Nausea
- Respiratory discomfort after significant exposure

Repeated or excessive exposure should be avoided.

12. Ecological Information

Avoid uncontrolled release into the environment.

Naphthalene may be harmful to aquatic organisms and should not be discharged directly into drains, surface water, or soil.

13. Disposal Considerations

Dispose of waste material and contaminated packaging in accordance with local, regional, and national regulations.

Do not dispose of large quantities into sewage systems or the environment.

14. Transport Information

Refined Naphthalene may be subject to dangerous goods transport regulations.

Transport classification, UN number, packing group, and labeling requirements should be confirmed from the current official supplier SDS and applicable transport regulations before shipment.

15. Regulatory Information

Users should ensure compliance with applicable:

- Chemical handling regulations
- Workplace safety requirements
- Environmental regulations
- Transportation regulations
- Destination-country requirements



16. Other Information

This MSDS summary is provided for general product and website information. It is not a substitute for an official, supplier-issued Safety Data Sheet.

For purchasing, shipping, regulatory compliance, or workplace use, always refer to the latest official SDS, TDS, and Certificate of Analysis for the specific batch and grade.