



# Material Safety Data Sheet (MSDS) Of Crude Oil

## Section 1: Product Information

Product Name: Crude Oil  
Chemical Family: Hydrocarbons  
CAS Number: 8002-05-9

## Section 2: Hazard Identification

Classification:  
Flammable Liquid (Category 2)  
Acute Toxicity (Inhalation) (Category 3)  
Skin Irritation (Category 2)  
Aquatic Chronic Toxicity (Category 3)  
Signal Word: Danger  
Hazard Statements:  
Highly flammable liquid and vapor.  
May cause respiratory irritation.  
Causes skin irritation.  
Harmful to aquatic life.

## Section 3: Composition/Information on Ingredients

Chemical Name: Crude Oil  
Concentration: Complex mixture of hydrocarbons, including alkanes, cycloalkanes, aromatics, and heterocyclic compounds.

## Section 4: First Aid Measures

Eye Contact: Rinse with water for at least 15 minutes. Seek medical attention if irritation persists.  
Skin Contact: Wash affected areas with soap and water. Remove contaminated clothing. Seek medical attention if irritation occurs.  
Inhalation: Remove to fresh air. If breathing difficulties persist, seek medical attention.  
Ingestion: Do not induce vomiting. Rinse mouth with water. Seek immediate medical attention.

## Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Foam, carbon dioxide, dry chemical, water spray.  
Specific Hazards: Flammable liquid. Vapors may form explosive mixtures with air.  
Special Protective Equipment: Wear self-contained breathing apparatus and protective clothing.



## **Section 6: Accidental Release Measures**

Personal Precautions: Evacuate the area. Use personal protective equipment. Prevent entry into waterways.

Environmental Precautions: Notify relevant authorities. Contain and collect spilled material.

## **Section 7: Handling and Storage**

Handling: Use in well-ventilated areas. Avoid contact with eyes, skin, and clothing.

Storage: Store in cool, well-ventilated areas away from heat sources and ignition sources. Keep containers tightly closed.

## **Section 8: Exposure Controls/Personal Protection**

Exposure Limits:

OSHA Permissible Exposure Limit (PEL): 5 mg/m<sup>3</sup> (8-hour TWA)

ACGIH Threshold Limit Value (TLV): 5 mg/m<sup>3</sup> (8-hour TWA)

Engineering Controls: Use local exhaust ventilation to maintain airborne concentrations below exposure limits.

Personal Protective Equipment: Wear appropriate protective clothing, gloves, and eye/face protection.

## **Section 9: Physical and Chemical Properties**

Physical State: Liquid

Color: Varies (typically brown or black)

Odor: Characteristic petroleum odor

Flash Point: Varies (typically below 60°C/140°F)

Boiling Point: Varies (typically between 100°C and 300°C)

## **Section 10: Stability and Reactivity**

Stability: Stable under normal conditions.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Combustion may produce carbon monoxide, carbon dioxide, and other toxic gases.



### **Section 11: Toxicological Information**

Acute Toxicity: Low toxicity by ingestion. Inhalation exposure may cause respiratory irritation.

Skin Irritation: Irritating to skin.

Eye Irritation: Irritating to eyes.

### **Section 12: Ecological Information**

Ecotoxicity: Harmful to aquatic life. Avoid release into the environment.

### **Section 13: Disposal Considerations**

Dispose of in accordance with local, regional, and national regulations.

### **Section 14: Transport Information**

UN Number: 1267

Proper Shipping Name: Petroleum Crude Oil

Transport Hazard Class: 3 (Flammable liquid)

### **Section 15: Regulatory Information**

Follow all applicable regulations and guidelines.

### **Section 16: Other Information**

This MSDS is intended to provide a summary of key information. It is not a comprehensive document. For detailed information, refer to the product label and technical data sheet.