

Safety Data Sheet (MSDS) for Ethyl Oleate

Manufacturer: Shandong Ruisheng Pharmaceutical Excipients Co., Ltd.

Packaging Specifications: 20KG/drum, 180KG/drum, 180ml/bottle

Manufacturer's Address: Middle Section of West Ring Road, Dong'e County, Liaocheng City, Shandong Province

Contact Number: 0635-5018008

Section 1: Chemical Product and Company Identification

Chemical Name: Ethyl Oleate

This product is a mixture of fatty acid ethyl esters, with ethyl oleate as the main component.

Chemical English Name: Ethyl Oleate

Section 2: Composition/Information on Ingredients

Nature: Mixture

This product is a colorless to pale yellow clear liquid.

It is almost insoluble in water.

It is used as a plasticizer, ointment base, etc.

Section 3: Hazards Identification

Hazard Class: Not a hazardous substance or mixture in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Routes of Exposure: Ingestion

Health Hazards: Harmful if ingested in excessive amounts

Environmental Hazards: Slightly hazardous to water

Section 4: First-Aid Measures

General Advice: Consult a physician.

Inhalation: If inhaled, remove the victim to fresh air. Perform artificial respiration if



breathing stops.

Skin Contact: Wash with soap and plenty of water.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and seek medical attention.

Ingestion: Do not give anything by mouth to an unconscious person. Rinse mouth with water and seek medical attention.

No detailed information available on symptoms requiring immediate medical and special treatment.

Section 5: Fire-Fighting Measures

Nature: This product is not a flammable substance but is combustible.

Extinguishing Media: Dry chemical powder, carbon dioxide

Special Hazards: In case of fire, the release of other toxic gases cannot be ruled out, e.g., Carbon Monoxide (CO)

Special Extinguishing Methods: Avoid inhalation of dust/fumes/gases/mists/vapors/spray

Special Protective Equipment for Firefighters: Wear appropriate respiratory protection in case of insufficient ventilation.

Section 6: Accidental Release Measures

Protective Measures

Wear protective clothing and respiratory protection to avoid exposure to fumes/dust/aerosols.

Environmental Protection Measures

Do not allow the product to enter sewage systems or any water sources.

Spill/Leakage Disposal

Absorb with sand or other inert materials, or rinse with plenty of water, dilute and discharge into wastewater collection systems.

Section 7: Handling and Storage

Store in a cool, dry, well-ventilated place, away from direct sunlight, in a sealed container.

In accordance with the provisions of the 2025 Edition of Volume IV of the Chinese Pharmacopoeia and the results of stability studies, ethyl oleate shall be stored in a light-resistant and sealed container.



Section 8: Exposure Controls/Personal Protection

Engineering Controls

Operate in a sealed system with adequate ventilation.

Respiratory Protection

Wear self-priming filter type half-mask respirator when the concentration in the air exceeds the limit; wear air respirator during emergency evacuation or first aid.

Eye Protection

Wear chemical safety goggles.

Body Protection

Wear poison-proof permeable protective work clothes.

Hand Protection

Wear rubber gloves.

Other Protection

None

Section 9: Physical and Chemical Properties

Main Component: Mixture

Physical State: Colorless to pale yellow clear liquid

Color: Colorless to pale yellow clear

Specific Gravity/Density: 0.866 ~ 0.874

Acid Value: Not more than 0.5

Saponification Value: 177 ~ 188

Iodine Value: 75 ~ 85

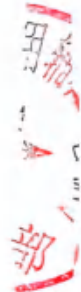
Peroxide Value: Not more than 10.0

Refractive Index: 1.443 ~ 1.450 at 25°C

Section 10: Stability and Reactivity

Ethyl oleate is combustible.

Reactivity: May become rancid upon prolonged exposure to air.



Stability: Stable at low temperatures.

Section 11: Toxicological Information

Acute Toxicity: LD50 (Rat, oral): >5g/kg; LD50 (Rabbit, dermal): >5g/kg

Others: Slightly irritating.

References

1. Translated by Zheng Junmin. *Handbook of Pharmaceutical Excipients (4th Edition)*. Beijing: Chemical Industry Press, 2005:203
2. Pharmaceutical Excipient Database, Center for Drug Evaluation, National Medical Products Administration

Section 12: Ecological Information

Persistence and Degradability

Not readily biodegradable.

Other Information

Potential for Bioaccumulation: No expected accumulation in organisms.

Mobility in Soil: No detailed information available.

Additional Ecological Information: Do not allow undiluted or large quantities of the product to contact groundwater, water courses or sewage systems; Water Hazard Class: Slightly hazardous to water.

Other Adverse Effects: No detailed information available.

Section 13: Disposal Considerations

Disposal Methods

Recommendation: Must be disposed of in strict accordance with government regulations.

Contaminated Containers and Packaging

Recommendation: Must be discarded in accordance with official rules.

Section 14: Transport Information

Transport Hazard Class: Not specified

Environmentally Hazardous: No



Marine Pollutant: No

Special Precautions for Users: Not applicable

Section 15: Regulatory Information

Not listed in the Hazardous Chemicals Catalogue.

Chemical Safety Assessment: Not yet conducted.

Section 16: Other Information

None

Shandong Ruisheng Pharmaceutical Excipients Co., Ltd.

October 14, 2025

