

# Material Safety Data Sheet (MSDS) for Peanut Oil

Manufacturer: Shandong Ruisheng Pharmaceutical Excipients Co., Ltd.

Packaging Specification: 20KG/drum

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:** Peanut Oil

This product is a fatty oil refined and extracted from the mature seeds of *Arachis hypogaea* L. (Fabaceae) or its varieties.

## Section 2: Composition/Information on Ingredients

**Property:** Mixture

Peanut oil is pale yellow, transparent, clear in color, fragrant in smell and palatable in taste, being an easily digestible edible oil. Typical analysis of refined peanut oil shows it exists in the form of glycerides, with the fatty acid composition as follows: arachidic acid 2.4%, behenic acid 3.1%, palmitic acid 8.3%, stearic acid 3.1%, linoleic acid 26.0% and oleic acid 56.0%.

**CAS No.:** 8002-03-7

## Section 3: Hazards Identification

**Hazard Class:** Not defined by national standards

**Routes of Exposure:** Ingestion

**Health Hazards:** Harmful to the body if ingested

**Environmental Hazards:** Minor

## 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 advice.

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

**Symptoms Requiring Immediate and Special Medical Attention:** No detailed data available.

## Section 5: Fire-Fighting Measures

**Property:** Not a flammable substance, but 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 Procedures:** Avoid inhalation of dust/smoke/gases/fumes/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 use respiratory protection to avoid exposure to smoke/dust/aerosols.

### Environmental Precautions

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

### Spill/Leakage Handling

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

## Section 7: Handling and Storage

Peanut oil is a colorless or pale yellow liquid with a faint nutty odor and mild nutty taste. It starts to become turbid at about 3°C and partially solidifies at lower temperatures.

According to relevant literature: Peanut oil is stable in an oxygen-free environment;

peanut oil emulsions may produce free fatty acids and become rancid during long-term storage, especially at high temperatures.

In accordance with the provisions of Volume IV of the Chinese Pharmacopoeia 2025 Edition and stability study results, the storage conditions for peanut oil are: protected from light, sealed, stored in a cool and dark place.

## Section 8: Exposure Controls/Personal Protection

**Engineering Controls:** Operate in a closed system with adequate ventilation.

**Respiratory Protection:** Wear self-priming filter type gas mask (half-mask) 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 chemical protective clothing resistant to poison penetration.

**Hand Protection:** Wear rubber gloves.

**Other Protection:** None

## Section 9: Physical and Chemical Properties

**Main Component:** Mixture

**Physical State:** Colorless or pale yellow clear oily liquid

**Solubility:** Very slightly soluble in ethanol

**Relative Density:** 0.914 ~ 0.917

**Flash Point:** 283°C

## Section 10: Stability and Reactivity

Peanut oil will gradually thicken and become rancid when exposed to air. Solidified peanut oil should be completely melted and mixed well before use. Peanut oil can be sterilized by sterile filtration or dry heat sterilization, e.g., sterilization at 150°C for 1 hour.

Peanut oil should be filled in airtight and light-proof containers, and stored at a temperature not exceeding 40°C.

**Stability:** Relatively stable at low temperatures.

## Section 11: Toxicological Information

Oral administration of 15 ~ 60mL of peanut oil or rectal enema of 100 ~ 500mL has a mild laxative effect.

A large number of literatures have reported adverse reactions of peanut oil in food or



pharmaceutical formulations, including severe allergic rashes and anaphylactic shock after eating peanut butter. Researchers point out that infants using preparations containing peanut oil (including infant preparations and topical formulations) may have peanut sensitization and thus allergic reactions, so the use of such products should be avoided or prohibited. However, the role of pharmaceutical formulations in causing allergies is controversial, because the high-purity peanut oil contained in such formulations does not contain proteins that can cause allergic reactions in people with sensitive constitutions.

## 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:** Readily biodegradable

**Other Information:**

**Potential for Bioaccumulation:** No expected accumulation in organisms.

**Mobility in Soil:** No detailed data 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 data available.

## Section 13: Disposal Considerations

**Waste Disposal Method:** It is recommended to dispose of the product in strict accordance with government regulations.

**Contaminated Containers and Packaging:** It is recommended to discard in accordance with official regulations.

## 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

**Hazardous Chemicals List:** The substance is not listed.

**Chemical Safety Assessment:** Not yet conducted.

## **Section 16: Other Information**

None

Shandong Ruisheng Pharmaceutical Excipients Co., Ltd.

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