



Material Safety Data Sheet (MSDS) – Lecithin

1. Identification of the Substance and Supplier

Product Name: Lecithin

Supplier: Basekim

CAS Number: 8002-43-5

EC Number: 232-307-2

Food Additive Number: E322

Product Type: Natural phospholipid-based emulsifier

Recommended Uses: Food processing, confectionery, bakery, cosmetics, and industrial formulations.

Document Status: General draft. The exact product grade, composition, emergency contact details, and regulatory classification must be verified before this document can serve as an official supplier SDS.

2. Hazards Identification

GHS Classification: Conventional lecithin grades are generally not classified as hazardous. Confirm the classification for the specific product.

Signal Word: None generally required.

Hazard Pictograms: None generally required.

Potential Hazards:

- Direct eye contact may cause temporary discomfort.
- Airborne powder may irritate the respiratory tract.
- Liquid spills may create slippery surfaces.
- Fine powder may present a combustible dust hazard.
- Soy-derived grades require appropriate allergen evaluation.



3. Composition and Information on Ingredients

Component	CAS Number	Concentration
Lecithin	8002-43-5	Grade-dependent
Vegetable oil and other lipids	Varies	Grade-dependent

Exact composition depends on the raw material and manufacturing process.

4. First Aid Measures

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if possible. Seek medical attention if irritation persists.

Skin Contact: Wash affected skin with soap and water. Remove contaminated clothing.

Inhalation: Move the affected person to fresh air. Seek medical attention if breathing difficulties occur.

Ingestion: Rinse the mouth with water. Do not induce vomiting. Seek medical advice if symptoms develop.

Allergic Reaction: Seek immediate medical assistance if severe allergic symptoms occur.

5. Fire-Fighting Measures

Suitable Extinguishing Media:

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

Specific Hazards:

Combustion may release carbon monoxide, carbon dioxide, and other irritating fumes.

Fine airborne powder may present a dust explosion hazard under suitable conditions.

Protective Equipment:



Firefighters should wear full protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions:

Wear appropriate protective equipment. Avoid dust generation, remove ignition sources when necessary, and prevent slips.

Environmental Precautions:

Prevent large quantities from entering drains, waterways, or soil.

Cleaning Methods:

- Contain liquid spills using suitable absorbent materials.
- Collect powder carefully without generating airborne dust.
- Transfer collected material into suitable waste containers.
- Clean the affected surface thoroughly.

7. Handling and Storage

Handling:

- Maintain adequate workplace ventilation.
- Avoid unnecessary skin and eye contact.
- Minimize airborne dust.
- Keep away from excessive heat and ignition sources.
- Follow standard industrial hygiene procedures.

Storage:

Store in tightly sealed containers in a cool, dry, and well-ventilated area.

Protect the material from sunlight, excessive heat, moisture, and contamination.

Follow the product-specific storage temperature and shelf-life recommendations.



8. Exposure Controls and Personal Protection

Protection	Recommendation
Eye Protection	Safety glasses
Hand Protection	Suitable protective gloves
Respiratory Protection	Suitable particulate respirator when required
Skin Protection	Protective work clothing
Ventilation	Adequate general or local ventilation

Exposure Limits: Apply relevant local occupational exposure limits for airborne particulates where appropriate.

9. Physical and Chemical Properties

Property	Description
Physical State	Liquid, granular, or powder
Appearance	Yellow to brown
Odor	Characteristic
Water Solubility	Generally dispersible; grade-dependent
pH	Grade-dependent
Flash Point	Product-specific data required
Density	Grade-dependent
Molecular Formula	Not applicable to the complete mixture
Stability	Stable under recommended storage conditions

10. Stability and Reactivity

Chemical Stability: Stable under recommended handling and storage conditions.

Conditions to Avoid: Excessive heat, ignition sources, and dust accumulation.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides and other potentially irritating combustion products.



11. Toxicological Information

Acute Toxicity: Available information generally does not indicate acute toxicity classification for conventional lecithin grades.

Skin Contact: May cause mild discomfort in sensitive individuals.

Eye Contact: May cause temporary irritation.

Inhalation: Airborne dust may cause respiratory discomfort.

Sensitization: Evaluate residual allergenic proteins and labeling requirements for soy-derived grades.

Long-Term Effects: Complete toxicological information may not be available for every commercial formulation.

12. Ecological Information

Ecotoxicity: Product-specific aquatic toxicity data may be limited.

Biodegradability: Data depend on the product grade and composition.

Bioaccumulation: Product-specific information may be unavailable.

Environmental Precautions: Avoid uncontrolled release into waterways, drains, and soil.

13. Disposal Considerations

Dispose of product residues according to applicable local and national regulations.

Do not discharge large quantities into wastewater systems.

Clean empty containers appropriately before recycling or disposal.



14. Transport Information

Conventional lecithin products are generally not classified as dangerous goods for transport. Confirm the classification for the supplied grade.

Transport Regulation	Classification
ADR/RID	Generally not regulated
IMDG	Generally not regulated
IATA	Generally not regulated
UN Number	Generally not assigned
Packing Group	Generally not applicable

15. Regulatory Information

CAS Number: 8002-43-5

EC Number: 232-307-2

Food Additive Identification: E322

Food-grade compliance, allergen labeling, chemical inventory status, and applicable safety requirements must be verified for the specific product and destination market.

16. Other Information

Document Type: Material Safety Data Sheet (MSDS)

Product Name: Lecithin

Supplier: Basekim

Revision Status: Pending product-specific verification.

Disclaimer: This document provides general safety guidance for conventional lecithin products. Actual hazards, technical properties, storage conditions, and regulatory classifications may vary between soy, sunflower, liquid, and powdered grades. The supplier must review and authorize a product-specific SDS before issuing it for workplace or regulatory compliance.