KEEP INGREDIENTS CO. LTD

No. 2019, Unit 1, Building 10, Yuexiucheng Phase 1,
Guodu Xuefu Street, Chang'an District, Xi'an, Shaanxi,
710119, China

PRODUCT PROFILE & TECHNICAL DATA SHEET

Soy Phosphatidylserine 50%

Phosphatidylserine is a powdered raw material prepared from soybean lecithin and L-serine by phospholipase conversion, purification and concentration, secondary purification, drying, crushing and packaging.

Item	Information
Product name	Phosphatidylserine
Content analysis	50%
PS content range	50%–60%
Source materials	Soybean lecithin and L-serine
Appearance	Fine powder
Color	Light yellow to brownish yellow
Flavor / taste	Characteristic
Solubility	Water soluble
Classification	Other food / New food raw materials
Usage amount	≤600 mg/day
Usage restriction	Not for use in infant food
Storage	Cool, dry and dark place
Shelf life	12 months
Implementation standards	Announcement No. 15 of 2010 of the former Ministry of Health of China; Q/BAR 0001S-2021

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COMMERCIAL PRODUCT GRADES

Product	PS content
Soy-derived Phosphatidylserine	20%
Soy-derived Phosphatidylserine	50%
Soy-derived Phosphatidylserine	70%
Soy-derived Phosphatidylserine	80%
Sunflower-derived Phosphatidylserine	20%
Sunflower-derived Phosphatidylserine	50%
Sunflower-derived Phosphatidylserine	70%
Sunflower-derived Phosphatidylserine	80%
Fully Water-Soluble Phosphatidylserine	50%



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SOY PHOSPHATIDYLSERINE 50% - SPECIFICATION SHEET

Parameter	Specification
Color	Light yellow to brownish yellow
Flavor / taste	Characteristic
Appearance	Fine powder
Foreign matter	No visible extraneous foreign matter
Moisture (g/100 g)	≤2.0
Phosphatidylserine (g/100 g)	50%–60%
Acetone-insoluble content (g/100 g)	≥95
Residual n-hexane (mg/kg)	≤25
Residual ethanol (mg/kg)	≤2000
Peroxide value (meq/kg)	≤10
Lead, Pb (mg/kg)	≤0.09
Arsenic, As (mg/kg)	≤0.1
Total plate count (CFU/g)	≤1000
Coliforms (MPN/g)	<3.0
Yeast and mold (CFU/g)	≤50
Salmonella (/25 g)	Negative
Staphylococcus aureus (/25 g)	Negative

PACKAGING & LABEL INFORMATION

Packaging specification

Pack size	Packaging
1 kg/bag; 5 kg/bag	Aluminum foil bags
10 kg/bag; 20 kg/bag; 25 kg/bag	Double-layer polyethylene bags
Outer packaging	Corrugated cardboard boxes or cardboard drums

Storage and shelf life

Store in a cool, dry and dark place. Shelf life: 12 months.

Label information

Product name

Product specification

Batch number

Manufacture date

Expiry date

Net content

Product execution standards

Usage and precautions

Storage conditions

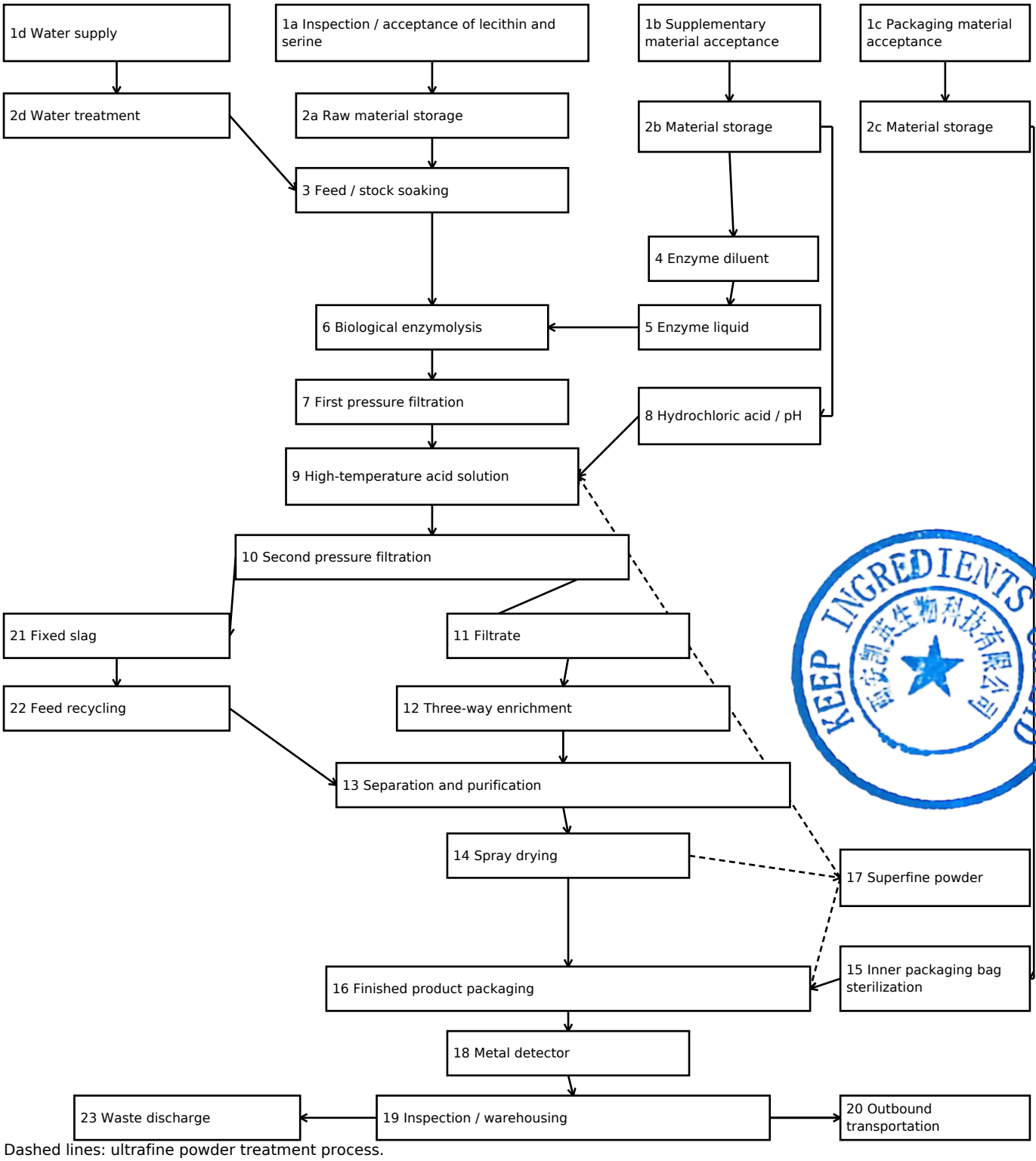
Supplier: KEEP INGREDIENTS CO. LTD

Supplier address: No. 2019, Unit 1, Building 10, Yuexiucheng Phase 1, Guodu Xuefu Street, Chang’an District, Xi’an, Shaanxi, 710119, China

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MANUFACTURING PROCESS FLOW CHART



Dashed lines: ultrafine powder treatment process.

RAW MATERIAL & PROCESS INPUT INFORMATION

Ingredient	Origin	Material source	Part used	Percent (%)	Solvent / method
Phospholipid	China	Soybean	N/A	25	Hexane
Serine	China	Glycine	N/A	8.72	Water

Process aids

Process aid	Origin	Material source	Part used	Percent (%)	Solvent / method
Hexane	China	Mineral	N/A	21.81	N/A
Isopropanol	China	Mineral	N/A	4.36	N/A
Calcium chloride	China	Mineral	N/A	0.44	N/A
Sodium acetate	China	Mineral	N/A	0.51	N/A
Phospholipase	China	Microorganism	N/A	0.18	N/A
Glacial acetic acid	China	Plant	N/A	3.64	N/A
Ethanol	China	Plant	N/A	81.14	N/A



EXTRACTION STATEMENT

Product Name: Phosphatidylserine

We hereby confirm the following extraction details for Phosphatidylserine:

Ingredient	Origin	Material source	Part used	Extraction ratio	Solvent / method
Soybean phospholipid	China	Soybean	Soybean phospholipid	3:2	50% hexane
Serine	China	Glycine	Glycine	1:3	50% water

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

ORIGIN STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that the soybean phospholipid and serine raw materials used for Phosphatidylserine originate from China. The phospholipid is soybean-derived, and the material source for serine is glycine.

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

KEEP INGREDIENTS CO. LTD

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NON-GMO STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that Phosphatidylserine does not contain genetically modified material.

KEEP INGREDIENTS CO., LTD

Date: 2026.09.22

GLUTEN-FREE STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that Phosphatidylserine does not contain gluten.

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

NON-ETO STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that Phosphatidylserine is not treated with ethylene oxide (ETO).

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

NON-IRRADIATION STATEMENT

Product Name: Phosphatidylserine

To the best of our knowledge, Phosphatidylserine has not been sterilized by irradiation during the manufacturing process.

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

KEEP INGREDIENTS CO. LTD

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710119, China

HEAVY METAL LIMIT STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that the heavy metal residual limits for Phosphatidylserine follow GB 2762-2022.

Parameter	Specification
Lead, Pb (mg/kg)	≤0.09
Arsenic, As (mg/kg)	≤0.1

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22



PESTICIDE RESIDUE STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that the pesticide residue limits for Phosphatidylserine follow GB 2763-2021.



KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

RESIDUAL SOLVENT STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that the residual n-hexane limit for Phosphatidylserine is ≤25 mg/kg, in accordance with Announcement No. 15 of 2010 of the former Ministry of Health of China.

Parameter	Specification
Residual n-hexane (mg/kg)	≤25
Residual ethanol (mg/kg)	≤2000



KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

MICROBIOLOGICAL STATEMENT

Product Name: Phosphatidylserine

We hereby confirm the following microbiological specifications for Phosphatidylserine:

Parameter	Specification
Total plate count (CFU/g)	≤1000
Coliforms (MPN/g)	<3.0
Yeast and mold (CFU/g)	≤50
Salmonella (/25 g)	Negative
Staphylococcus aureus (/25 g)	Negative

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

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PHTHALATE STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that Phosphatidylserine does not contain the following substances:

DINP - Diisononyl phthalate
DEHP - Di(2-ethylhexyl) phthalate
BBP - Benzylbutyl phthalate
DIDP - Diisodecyl phthalate
DNOP - Di(n-octyl) phthalate
DBP - Di-n-butyl phthalate

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

PROPOSITION 65 STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that no chemicals on the California Proposition 65 list, updated March 8, 2019, are used or added in the manufacturing of Phosphatidylserine. The referenced list is the Chemicals Known to the State to Cause Cancer or Reproductive Toxicity under the Safe Drinking Water and Toxic Enforcement Act of 1986.

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

HALAL STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that Phosphatidylserine meets Halal certification requirements.

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

KOSHER STATEMENT

Product Name: Phosphatidylserine

We hereby confirm that Phosphatidylserine meets Kosher certification requirements.

KEEP INGREDIENTS CO. LTD

Date: 2026.09.22

MATERIAL SAFETY DATA SHEET

1. Identification

Product name: Phosphatidylserine
Product grade: Soy Phosphatidylserine 50%
Use: Food raw material; not for use in infant food.
Supplier: KEEP INGREDIENTS CO. LTD
Address: No. 2019, Unit 1, Building 10, Yuexiucheng Phase 1, Guodu Xuefu Street, Chang'an District, Xi'an, Shaanxi, 710119, China.
Telephone: +86 17396654828
Dedicated emergency telephone: Not available.

2. Hazard(s) identification

Classification under the standards of the People's Republic of China: not classified as dangerous goods.
GHS hazard classification: Not available.
Signal word, hazard pictograms and hazard statements: Not available.
Other hazard information: No product-specific information available.

3. Composition/information on ingredients

Component	Identification / content
Phosphatidylserine	CAS 51446-62-9; specification 50%–60%
Other ingredients	Phospholipids, serine and water

4. First-aid measures

Inhalation: No product-specific information available.
Skin contact: No product-specific information available.
Eye contact: No product-specific information available.
Ingestion: No product-specific information available.
Most important symptoms and effects: No product-specific information available.
Immediate medical attention and special treatment: No product-specific information available.

MATERIAL SAFETY DATA SHEET

5. Fire-fighting measures

Suitable extinguishing media: No product-specific information available.
Unsuitable extinguishing media: No product-specific information available.
Specific hazards arising from the product: No product-specific information available.
Special protective equipment for firefighters: No product-specific information available.

6. Accidental release measures

Personal precautions and protective equipment: No product-specific information available.
Environmental precautions: No product-specific information available.
Methods for containment and cleanup: No product-specific information available.

7. Handling and storage

Keep sealed and store in a cool, dry and dark place.
Conditions to avoid: high temperature, strong light and humidity.
Shelf life: 12 months.
Incompatible materials: No product-specific information available.

8. Exposure controls/personal protection

Occupational exposure limits: Not available.
Biological limit values: Not available.
Engineering controls: No product-specific information available.
Respiratory protection requirements: No product-specific information available.
Hand, eye and skin protection requirements: No product-specific information available.

MATERIAL SAFETY DATA SHEET

9. Physical and chemical properties

Property	Information
Physical state	Fine powder
Color (product specification)	Light yellow to brownish yellow
Odor	Characteristic; no off-odor
Solubility	Water soluble
Melting point / freezing point	Not available
Boiling point / range	Not available
Flammability	Not available
Lower / upper explosion limits	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Kinematic viscosity	Not available
Partition coefficient (n-octanol/water)	Not available
Vapor pressure	Not available
Density / relative density	Not available
Relative vapor density	Not available
Particle characteristics	Not available

10. Stability and reactivity

Chemical stability: Stable under normal temperature and pressure.
Conditions to avoid: High temperature, strong light and humidity.
Reactivity, hazardous reactions and incompatible materials: No product-specific information available.
Hazardous decomposition products: None stated.

MATERIAL SAFETY DATA SHEET

11. Toxicological information

Skin irritation: Non-irritant.
Eye irritation: Non-irritant.
Long-term contact symptoms: No adverse effects stated.
Acute toxicity values, sensitization, mutagenicity, reproductive toxicity, specific target organ toxicity and aspiration hazard: No product-specific test data available.
Carcinogenicity test data: Not available.

12. Ecological information

Ecotoxicity: Described as non-toxic and harmless to aquatic organisms.
Quantitative ecotoxicity data: Not available.
Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Other adverse effects: No product-specific information available.

13. Disposal considerations

Dispose of product waste in accordance with applicable local laws and regulations.
Contaminated packaging disposal: No product-specific information available.

14. Transport information

Transport information: Not listed as a toxic or harmful substance by the transportation authority.
UN number, UN proper shipping name, transport hazard class and packing group: Not available.
Environmental transport hazards, bulk transport and special precautions: No product-specific information available.

15. Regulatory information

Product classification: Other food / New food raw materials.
Product implementation references: Announcement No. 15 of 2010 of the former Ministry of Health of China; Q/BAR 0001S-2021.
Product-specific U.S. and EU chemical safety regulatory information: Not available.

16. Other information

Revision date: 2026.10.09
Revision: Safety data sheet reorganized into the 16-section structure.
Abbreviations: CAS - Chemical Abstracts Service; GHS - Globally Harmonized System of Classification and Labelling of Chemicals; UN - United Nations.