



Specification

Product Name: Sunflower Lecithin

Product Code: SPEC0055

Description:

Our Sunflower Lecithin is a premium quality, de-oiled, allergen-free and natural source of phospholipids choline and other essential fatty acids. A natural emulsifier (prevents oil and water from separating). Sunflower Lecithin offers a multifunctional, flexible and versatile tool. Suitable for Vegans & Vegetarians, Non-GMO, Gluten Free, Non-irradiated.

Chemical-physical analysis:

Acetone Insolubles	Min 97%
Toluene Insolubles	Max 0.3%
Acid Value	Max 35 mg KOH/g
Peroxide Value	Max 5 meq O ₂ /kg
Moisture	Max 1.5%
Colour Gardner	Max 14 (10% diluted)
Viscosity	Free flowing powder

Microbiological Analysis:

Total Plate Count	Max. 1.000 CFU/g
Yeast	Max. 30 CFU/g
Moulds	Max. 30 CFU/g
Salmonella	Neg./25g
Enterobacteriaceae	Neg./g

Ingredients:

Sunflower Lecithin Powder (E322)

Dietary Information:

Suitable for Vegans & Vegetarians, Non-GMO, Gluten Free, Non-irradiated.

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**Nutritional Information:**

Based on typical content/100g: Energy: 3230kj/760kCal, Fat: 91g, Of which saturates: 12g, Carbohydrates: 9g, Of which sugars: 5g, Protein: <0.3g, Salt: 0.05g.

Storage:

Store in dry, cool conditions and not in direct sunlight. Sensitive to all light. Use within 6 months of opening.

Packaging:

100g, 250g, 500g, 5kg, 10kg.

Shelf Life:

36 months from production date.

Allergen Declaration

Allergen	Contains (Y/N)
Cereals containing Gluten	N
Crustaceans	N
Eggs	N
Fish	N
Peanuts	N
Soybeans	N
Milk	N
Nuts	N
Celery	N
Mustard	N
Sesame Seeds	N
Sulphur Dioxide and Sulphites (at concentration of more than 10mg/kg or 10mg/L in terms of Sulphur Dioxide)	N
Lupin	N
Molluscs	N



Material Safety Data Sheet

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifiers

Identification of the substance	Lecithin of sunflower origin, powder
Article	Sunflower Lecithin
Registration number (REACH)	The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].
EC number	232-307-2
CAS number	8002-43-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: Additive E322 for Food

1.3 Details of the supplier of the safety data sheet

Company: Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN.
Tel: 0044 (0)1246 906247.
E-mail address: <https://specialingredients.co.uk/pages/contact>.

1.4 Emergency Telephone Number

Emergency Phone: 07701 095864.

2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) Nr. 1272/2008

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label Elements

Labelling according to Regulation (EC) Nr. 1272/2008

Not required

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Name of substance: Sunflower lecithin, powder
E number: E322

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CAS No: 8002-43-5

EC No: 232-307-2

Customs Tariff code: 29232000

4: FIRST AID MEASURES

4.1 Description of first aid measures



General notes:

No special measures are necessary

Following inhalation:

Provide fresh air.

Following skin contact:

Rinse skin with water/shower.

Following eye contact

Rinse cautiously with water for several minutes.

Following ingestion:

Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

None

5: FIREFIGHTING MEASURES



5.1 Extinguishing media

Suitable extinguishing media

Co-ordinate firefighting measures to the fire surroundings

Water, foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Product can form explosive mixtures with air, dust explosion class St-1 (German law)

Hazardous combustion products



Carbon monoxide (CO), Carbon dioxide (CO₂). May produce toxic fumes of carbon monoxide if burning.

5.3 Advise for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES



6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No special measures are necessary.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

6.3 Methods and materials for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4: Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

7: HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures are necessary.

Advice on general occupational hygiene

Keep away from food and drink.

7.2 Conditions for safe storage, including and incompatibilities

Store in a dry place. Recommended cool and dry by a relative humidity of max. 70%. Storage temperature max. 30°C.

Incompatible substances or mixtures

Observe hints for combined storage.

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**Consideration of other advice:****Specific designs for storage rooms or vessels**

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

Store in original containers and do not return residual material to containers as contamination may reduce the shelf life of the product.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****National limit values**

Occupational exposure limit values (Workplace Exposure Limits) This information is not available.

8.2 Exposure controls**Individual protection measures (personal protective equipment)**

Eye/face protection Unnecessary.

Skin protection Unnecessary.

Respiratory protection Unnecessary.

Environmental exposure controls

Keep away from drains, surface and ground water

9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

	Parameter	Value	Method	Remark
a)	Physical state	Solid		
b)	Form	Powder		
c)	Colour	Amber to brown		
d)	Odour	Characteristic		
e)	Melting point / freezing point	Not determined		
f)	Boiling point or initial boiling point and boiling range	Not determined		
g)	Flammability	No available		



h)	Lower explosion limit Upper explosion limit	30 g dust/m ²		
i)	Flash point	Above 165°C		
j)	Auto-ignition temperature	Not determined		
k)	Decomposition temperature	Not relevant		
l)	pH (value)	5.0 – 7.0		
m)	Kinematic viscosity	Not relevant		
n)	<u>Solubility (ies)</u> Water solubility	Dispersal at 20°C		
o)	Partition coefficient Partition coefficient n-octanol/water (log value)	No data available		
p)	Vapour pressure	Not determined		
q)	<u>Density and/or relative density</u> Density	Not determined		
r)	Relative vapour density	No data available		
s)	Particle characteristics	No data available		
t)	<u>Other safety parameters</u> Oxidising properties	none		

*values related to

n.d = not determined

n.a. = not applicable

9.2 Other information

Information with regard to physical

hazard classes:

hazard classes acc. to GHS

(physical hazards): not relevant

Other safety characteristic:

There is no additional information available.

10: STABILITY AND REACTIVITY

10.1 Reactivity

Not defined

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Not defined.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

**10.5 Incompatible materials**

Not applicable.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) Nr. 1272/2008****Classification according to GHS (1272/2008/EC, CLP)**

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity – single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity – repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

- If swallowed

Data are not available

- If in eyes

Data are not available

- If inhaled

Data are not available

- If on skin



Data are not available

- Other information

Health effects are not known. This information is based upon the present state of our knowledge.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Not listed.

11.2.2 Other information

No additional information available.

12: ECOLOGICAL INFORMATION

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Biodegradation

Data are not available.

12.2 Process of degradability

No data available

12.3 Bio accumulative potential No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment No data available

12.6 Endocrine disrupting properties Not listed

12.7 Other adverse effects No data available

13: DISPOSAL CONSIDERATIONS



13.1 Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal-relevant information Do not empty into drains.



13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

14: TRANSPORT INFORMATION

- | | |
|--|---|
| 14.1 UN number or ID number | not subject to transport regulations |
| 14.2 UN Proper shipping name | not assigned |
| 14.3 Transport hazard class(es) | none |
| 14.4 Packaging group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | There are no additional information available. |
| 14.7 Maritime transport in bulk according IMO instruments | Not applicable. |

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) – Additional information Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) – Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) – Additional information
Not subject to ICAO-IATA.

**15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture****Relevant provisions of the European Union (EU)****Restrictions according to REACH, Annex XVII**

Not listed

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

not listed

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance / hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Deco-Paint Directive

VOC content	0 %
VOC content	0 g/l

Industrial Emissions Directive (IED)

VOC content	0 g/l
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

Not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Not listed

Water Framework Directive (WFD)

Not listed

Regulation on the marketing and use of explosives precursors

Not listed

Regulation on drug precursors

Not listed

Regulation on substances that deplete the ozone layer (ODS)

Not listed

Regulation concerning the export and import of hazardous chemicals (PIC)



Not listed

Regulation on persistent organic pollutants (POP)

Not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AICS	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

Legend

AICS Australian Inventory of Chemical Substances

DSL Domestic Substances List (DSL)

ECSI EC Substance Inventory (EINECS, ELINCS, NLP)

IECSC Inventory of Existing Chemical Substances Produced or Imported in China

INSQ National Inventory of Chemical Substances

KECI Korea Existing Chemicals Inventory

NZIoC New Zealand Inventory of Chemicals

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PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)

TCSI Taiwan Chemical Substance Inventory

TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment No chemical Safety Assessment has been carried out for this substance.

16: OTHER INFORMATION

Indication of changes (revised material safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In-land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
NLP	No-Longer Polymer



PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

Abbr.	Descriptions of used abbreviations
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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