



## SAFETY DATA SHEET

### L-Theanine

#### 1. Identification

##### Product identifier

Product name L-Theanine  
Product number BTHEADP100OK

##### Recommended use of the chemical and restrictions on use

Application Ingredient for use in dietary supplements, food supplements, and other nutrition products, as applicable.  
Uses advised against No specific uses advised against are identified.

##### Details of the supplier of the safety data sheet

Supplier Innophos  
259 Prospect Plains Rd. Bldg A  
Cranbury, NJ 08512  
1-609-495-2495

##### Emergency telephone number

Emergency telephone CHEMTREC  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1-703-527-3887 (Collect calls accepted)(24/7)

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

Physical hazards Not Classified  
Health hazards Skin Sens. 1 - H317  
Environmental hazards Not Classified

##### Label elements

###### Hazard symbols



Signal word Warning  
Hazard statements H317 May cause an allergic skin reaction.  
Precautionary statements P261 Avoid breathing dust.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P302+P352 If on skin: Wash with plenty of water.  
P321 Specific treatment (see medical advice on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/ container in accordance with national regulations.

Contains L-Theanine

##### Other hazards



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This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### Mixtures

L-Theanine	60-100%
CAS number: 3081-61-6	
Classification	
Skin Sens. 1 - H317	

The full text for all hazard statements is displayed in Section 16.

**Composition comments** The exact composition and or concentration has been withheld as a trade secret per OSHA 29 CFR 1910.1200.

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
<b>Skin Contact</b>	Brush off loose particles from skin. It is important to remove the substance from the skin immediately. In the event of any sensitization symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognized skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

#### Most important symptoms and effects, both acute and delayed

<b>General information</b>	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
<b>Ingestion</b>	May cause sensitization or allergic reactions in sensitive individuals.



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**Skin contact** May cause skin sensitization or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

**Eye contact** Dust may cause slight irritation.

### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** Treat symptomatically. May cause sensitization or allergic reactions in sensitive individuals.

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

### Special hazards arising from the substance or mixture

**Specific hazards** None known.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

### Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## 7. Handling and storage



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### Precautions for safe handling

#### Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep container tightly sealed when not in use. Avoid handling which leads to dust formation. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

#### Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

### Conditions for safe storage, including any incompatibilities

#### Storage precautions

Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Utilize retaining walls to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

#### Storage class

Chemical storage.

### Specific end uses(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.

## 8. Exposure controls/Personal protection

### Control parameters

#### Occupational exposure limits

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup> Total Dust (Particulate Not Otherwise Regulated-PNOR)

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup> Respirable Fraction (Particulate Not Otherwise Regulated-PNOR)

OSHA = Occupational Safety and Health Administration.

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.



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Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.
Environmental exposure controls	Keep container tightly sealed when not in use.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Solid. (Powder.)
Color	White.
Odor	Characteristic.
Odor threshold	Not available.
pH	5.0 ~ 6.0
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Other flammability	Not available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	Not available.



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Bulk density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not available.
Explosive under the influence of a flame	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Oxidizing properties	Not applicable.

### 10. Stability and reactivity

Reactivity	See the other subsections of this section for further details.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Materials to avoid	Oxidizing materials.
Hazardous decomposition products	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Nitrogen Oxides

### 11. Toxicological information

#### Information on toxicological effects

Acute toxicity - oral	
Summary	Based on available data the classification criteria are not met.
Acute toxicity - dermal	
Summary	Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Summary	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation	



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Summary	Based on available data the classification criteria are not met.
Respiratory sensitization Summary	Based on available data the classification criteria are not met.
Skin sensitization Summary	May cause an allergic skin reaction.
Germ cell mutagenicity Summary	Based on available data the classification criteria are not met.
Carcinogenicity Summary	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - repeated exposure Summary	Based on available data the classification criteria are not met.
Aspiration hazard Summary	Not relevant. Solid.
General information	Dust may irritate the eyes and the respiratory system. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Ingestion	May cause sensitization or allergic reactions in sensitive individuals.
Skin Contact	May cause skin sensitization or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.
Eye contact	Dust may cause slight irritation.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target Organs	No specific target organs known.
Medical considerations	Skin disorders and allergies.

## 12. Ecological information

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Acute aquatic toxicity Summary	Based on available data the classification criteria are not met.
Chronic aquatic toxicity Summary	Based on available data the classification criteria are not met.



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### Persistence and degradability

Persistence and degradability The degradability of the product is not known.

### Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not available.

### Mobility in soil

Mobility No data available.

### Other adverse effects

Other adverse effects None known.

## 13. Disposal considerations

### Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

## 14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

### UN Number

UN No. (International) Not applicable.

UN No. (DOT) Not applicable.

### UN proper shipping name

Proper shipping name (International) Not applicable.

Proper shipping name (DOT) Not applicable.

### Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

### DOT transport labels

No transport warning sign required.

### Packing group

Packing group (International) Not applicable.





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DOT packing group Not applicable.

### Environmental hazards

Environmentally Hazardous Substance  
No.

### Special precautions for user

Not applicable.

DOT reportable quantity Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to  
Annex II of MARPOL 73/78 and  
the IBC Code Not applicable.

## 15. Regulatory information

Regulatory References OSHA Hazard Communication Standard 29 CFR §1910.1200

### US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities  
None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)  
None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities  
None of the ingredients are listed.

SARA 313 Emission Reporting  
None of the ingredients are listed.

CAA Accidental Release Prevention  
None of the ingredients are listed.

FDA - Essential Chemical  
None of the ingredients are listed or exempt.

FDA - Precursor Chemical  
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories  
Respiratory or skin sensitization

OSHA Highly Hazardous Chemicals  
None of the ingredients are listed.

### US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins  
None of the ingredients are listed or exempt.



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### California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed.

### California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

### California Directors List of Hazardous Substances

None of the ingredients are listed.

### Massachusetts "Right To Know" List

None of the ingredients are listed.

### Rhode Island "Right To Know" List

None of the ingredients are listed.

### Minnesota "Right To Know" List

None of the ingredients are listed.

### New Jersey "Right To Know" List

None of the ingredients are listed.

### Pennsylvania "Right To Know" List

None of the ingredients are listed.

### Inventories

#### US - TSCA

All the ingredients are listed or exempt.

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

## 16. Other information

[Abbreviations and acronyms used in the safety data sheet](#) TDG: The transport of dangerous goods act

IATA: International air transport association.  
 ICAO: Technical instructions for the safe transport of dangerous goods by air.  
 IMDG: International maritime dangerous goods.  
 CAS: Chemical abstracts service.  
 ATE: Acute toxicity estimate.  
 LC<sub>50</sub>: Lethal concentration to 50 % of a test population.  
 LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).  
 EC<sub>50</sub>: 50% of maximal effective concentration.  
 PBT: Persistent, bioaccumulative and toxic substance.  
 vPvB: Very persistent and very bioaccumulative.

[Classification abbreviations and acronyms](#) Skin Sens. = Skin sensitisation

[Training advice](#) Read and follow manufacturer's recommendations. Only trained personnel should use this material.

[Issued by](#) Innophos

[Revision date](#) 9/20/2021



## L-Theanine

Revision	2
Supersedes date	7/13/2021
Hazard statements in full	H317 May cause an allergic skin reaction.

\*This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to determine the suitability of such information for the user's own particular use, and for ensuring that all such uses and applications (including user's labeling of its products) comply with applicable law.