

SAFETY DATA SHEET

Section 1: Identification

Product Name:	Organic Shiitake liquid extract
Product Identification:	OSL
Other Means of Identification:	Dual liquid extract made from 100% shiitake (<i>Lentinula edodes</i>) fruiting bodies. Extract contains 25% alcohol.
Country of Manufacture:	Finland
Recommended Use:	Ingredient for use in dietary supplements, food products and cosmetics (topical and internal)
Supplier's Details:	Ecodrop Limited Pembroke Lodge, 3 Pembroke Road, Ruislip HA4 8NQ Support@ecodrop.co.uk

Section 2: Hazard(s) Identification

Classification of the Chemical:	Flammable liquids, Category 3
Hazard Statements:	H320: Causes eye irritation H226: Flammable liquid



Symbol:	
Precautionary Statements:	Keep away from heat, hot surfaces and other ignition sources.
Hazards Not Otherwise Classified:	N/A

Section 3: Composition/Information on Ingredients

Chemical Name:	Dual liquid extract produced from organic Shiitake (<i>Lentinula edodes</i>) fruiting bodies (mushrooms)
Common Name and Synonyms:	Dual liquid extract
Components and Concentration:	100% shiitake fruiting bodies. Extract contains 25% alcohol.

Section 4: First-Aid Measures

Inhalation:	Move casualty to fresh air from the exposure area. Get medical attention for any breathing difficulty.
Eye Contact:	Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.
Skin Contact:	Run water over the affected area for 15 minutes. A mild soap may be used if available. If symptoms occur, consult a physician.
Ingestion:	Consult a physician if symptoms occur.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Water spray, foam, CO2, dry chemical powder
Unsuitable Extinguishing Media:	No restriction known
Unusual Fire or Explosion Hazards:	Flammable liquids, Category 3
Special Protective Equipment and Precautions for Firefighters:	Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low area

Section 6: Accidental Release Measures

Personal Precautions and Protective Equipment:	Avoid contact with eyes and avoid inhalation Personal Protective Equipment: -Protective goggles -respiratory protective device
Environmental precautions:	Prevent entry into sewers and waterways. Do not allow material to contaminate groundwater system
Methods for Cleanup of Spill:	Spilled product must never be returned to the original container for recycling, sweep up or absorb material, then place into a suitable clean dry, closed container for disposal. Wash the area with detergent and water.

Section 7: Handling and Storage

Precautions of Safe Handling:

Keep

Product should be handled according to good industrial practice. Use in well ventilated area avoid inhaling vapour. Avoid contact with eyes and skin. Keep the container tightly closed when not in use. away from sources of ignition. - No smoking. Standard measures for fire prevention.

Technical measures:

Standard measures:

Safe handling advice:

Technical measures:

Recommended safe storage conditions:

Labeling: Keep out of the reach of children.

For Commercial use, only as directed by manufacturer

Wash hands after use.

Keep containers tightly closed.

Store in a cool, dry place protected from light, moisture and oxygen. This material must be stored at room temperature (15-20°C). It should not be exposed to excessive heat or cold. Do not freeze.

Packaging:

high density polyethylene (PE-HD) food grade container

Section 8: Exposure Controls/Personal Protection

Permissible Exposure Limit:

Not Available

Engineering Controls:

Handle in accordance with good industrial hygiene and safety practice. Adequate ventilation systems as needed to control concentrations of airborne dust below applicable threshold limits.

Individual Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

Eye/face Protection:

Safety glasses with side-shields may be appropriate.

No special hand protection is needed under normal conditions of use. No special clothing is required.

Respiratory Protection:

Use respiratory protective device for exposure above permissible exposure limits.

Section 9: Physical and Chemical Properties

Appearance:

Brown liquid

Odor:

Characteristic of Shiitake fruiting bodies

pH:

Not available

Melting/Freezing Point:

Not available

Boiling Point, Range:

80 degrees celsius

Solubility:

Not fully soluble

Flash point:

Not available

Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Ethanol content:	25%

Section 10: Stability and Reactivity

Reactivity:	Sensitive to light, moisture and oxygen. No specific test data related to reactivity is available for this product.
Chemical Stability:	Stable under ordinary conditions of use and storage up to three years then re-test to full product specifications to extend shelf life.
Possibility of Hazardous Reactions:	Flammable
Conditions to Avoid:	Standard measures for fire prevention.
Incompatible Materials:	No dangerous reaction known with common products.
Hazardous Decomposition Products:	None known

Section 11: Toxicological Information

General Information:	Based on our experience, we consider Shiitake dual liquid extract not toxic and not harmful in the recommended daily dose. Not suitable for children or during pregnancy.
Likely Routes of Exposure:	Inhalation, Ingestion, Skin Contact, Eye Contact
Acute Oral Toxicity:	Acute oral toxicity: LD50 (oral. Rat): 6200 mg/kg (CHP) (Ethanol) Acute dermal toxicity: LD50 (dermal. Rabbit): >20000 mg/kg (CHP) (Ethanol) Acute inhalation toxicity: LC50 (inhalative. Rat. 4h): >8000 mg/l (CHP) (Ethanol)
Skin Irritation:	None known
Eye Irritation:	Mildly irritating
<u>Potential Acute Health Effects</u>	
Inhalation:	None known
Skin Contact:	None known
Eye Contact:	May cause irritation
Ingestion:	May experience mild side-effects including, stomach ache, nausea, headache and dry mouth
Potential Chronic Health Effects:	None known

Section 12: Ecological Information

General Information:	Not determined
Acute Fish Toxicity:	Not determined
Acute Bacterial Toxicity:	Not determined
Ultimate Biodegradation:	Not determined
Environmental Exposure Controls:	In some cases, filters or engineering modifications to the process equipment will be necessary to reduce the release of fine particulate matter into the environment.

Section 13: Disposal Considerations

Disposal Methods:	Dispose of in accordance with relevant local regulations. Do not allow products to be released into the environment.
Contaminated Packaging:	Cleaning is not required prior to disposal according to relevant local regulations

Section 14: Transport Information

Classification:	R10 Flammable liquid
UN number:	1293 (tincture)
Proper shipping name:	Ethanol solution
Transport hazard class:	3
Packing group:	2
Environmental Hazards:	None known
Special Precautions for User:	No data available

Section 15: Regulatory Information

General regulatory info:	Water hazard class (WGK): slightly hazardous to water (WGK 1)
1488/94 as Commission	EU: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance)

EU: Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance)

EU: Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance)

Section 16: Other Information

Disclaimer:

of
user to
to other

The information given is based on our knowledge of this product, at the time of publication, in good faith. The attention of the user is drawn to the possible risks incurred by using or handling the product for any other purpose other than its intended use. This does not excuse the user from knowing and applying all the regulations governing their activity. It is the sole responsibility of the user to take necessary precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user fulfill their obligations regarding the use of said product. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Last Revision Date:

10th of August 2020



Doug Brunson
Quality Control Manager
KÄÄPÄ Biotech Oy
Karjalohja, Finland