

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

EXP1591 SDS Version 1 Issue Date 22/May/2025

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

#### 1.1 Product Identifier

Product Name: LION'S MANE STRONG INFUSION

Product Code: EXP1591

Index Number: N/A

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

Identified uses: Use as a food ingredient in manufacturing; for professional or industrial use only.

Uses advised against: None

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

Company: Ransom Naturals Limited

Address: 53 Bury Mead Road, Hitchin, Herts, SG5 1RT, United Kingdom.

Email contact: [Quality@ransomnaturals.com](mailto:Quality@ransomnaturals.com)

Telephone / Fax Number: 0044 (0)1462 437615 / No Fax

#### 1.4 Emergency Telephone Number

Emergency Telephone Number: +44 (0)1462 437615 (office hours)

+44 (0)7917 863807 (24hr QA Duty Officer)

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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Flammable Liquid Category 3, H226

For the full text of H-Statements see Section 16

#### Primary Effects

Physicochemical: Flammable liquid and vapour.

Human Health: None applicable.

Environmental: None applicable.

#### 2.1 Label elements

Pictogram:



Signal Word: Warning

Hazard Statement(s): H226

Precautionary Statement(s):

P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233 – Keep container tightly closed.

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P280 – Wear protective gloves/protective clothing/eye protection/face protection.

### 2.2 Other hazards

This mixture is not classifiable as PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 based on an assessment of the constituent ingredients.

## SECTION 3: Composition/information on ingredients

### General compositional description

An extract from the dried fruiting body of Lion's Mane mushroom (*Hericium erinaceus* (Bull.: Fr.) Pers.), containing approximately 20%v/v Ethanol (CAS No 64-17-5), and water.

### Hazardous components according to Regulation (EC) No. 1272/2008

Component Name and identifiers	Classification	Concentration, %w/w
Ethanol Index No. 603-002-00-5	Flam. Liq. 2 – H225 Eye Irrit. 2 – H319	14 - 18

For the full text of H-Statements see Section 16

## Section 4: First Aid Measures

### 4.1 Description of first aid measures

#### General Advice

Extinguish sources of ignition in the area. Avoid contact with eyes. If vapour is likely to be present wear a suitable organic vapour respirator or self-contained breathing apparatus.

#### If inhaled

Remove to fresh air, keep warm and at rest. If there are any difficulties with breathing give oxygen. If breathing stops or gives signs of failing apply artificial respiration and seek medical assistance.

#### In case of skin contact

Remove contaminated clothing; this should not be worn again until it has been laundered. Wash contaminated skin with soap and water. Seek medical advice if discomfort persists.

#### In case of eye contact

Rinse eyes with water and remove contact lenses if possible. Irrigate eyes with water or eye wash solution for at least fifteen minutes. If discomfort persists seek medical assistance.

#### If swallowed

Wash mouth out thoroughly with water. Do not induce vomiting. If a significant quantity has been ingested seek medical advice.

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

Ingestion: Ethanol taken to excess will cause depression of the central nervous

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system, indicated by nausea, vomiting, muscular incoordination, visual impairment and loss of consciousness. Aspiration during swallowing or vomiting will damage lungs.

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

For ingestion treat as alcohol poisoning.

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## SECTION 5: Firefighting Measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray, AFFF foam, chemical dry powder or carbon dioxide.

#### Unsuitable extinguishing media

Water jet.

### 5.2 Special hazards arising from the substance or mixture

Burning may produce irritating fumes, carbon monoxide, carbon dioxide, and oxides of nitrogen.

### 5.3 Advice for firefighters

No specific information; use normal personal protective equipment including self-contained breathing apparatus.

### 5.4 Further information

None.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment, and emergency procedures

Extinguish sources of ignition, and ventilate area. For large scale spillages evacuate area. Wear personal protective equipment as directed in Section 8.

### 6.2 Environmental precautions

Do not allow product to enter drains and watercourses. Inform local authority and fire service if preparation enters drains or watercourses.

### 6.3 Methods and material for containment and cleaning up

Use non-sparking tools. Absorb spillage using a proprietary absorbent or sand, scoop up and place in a suitable container; remove to a safe place and dispose of through a licensed waste disposal contractor for incineration. For large scale spillage use absorbent booms to contain the spillage. Wash contaminated area well with water and detergent.

### 6.4 Reference to other sections

For personal protective equipment required see Section 8; for disposal information see Section 13.

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## SECTION 7: Handling and storage

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### 7.1 Precautions for safe handling

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid contact with eyes. Use in a well-ventilated area. Avoid production of fumes or vapour; wear suitable respirators if fumes or vapour are produced. Wash contaminated clothing before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in well closed containers away from direct sunlight, heat, and sources of ignition.

Store at ambient temperature.

### 7.3 Specific end use(s)

No specific guidance relevant.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Components with Occupational Exposure Limits

The following components have limits set in EH/40/2005 (Fourth Edition, 2020):

Ethanol, CAS 64-17-5, Long Term Exposure Limit (8hr TWA) 1000ppm, 1920mg/m<sup>3</sup>.

### 8.2 Exposure controls

#### Appropriate engineering controls

Local exhaust ventilation.

#### Individual protection measures, including personal protective equipment

##### Eye/face protection

Wear goggles or face-shield meeting the requirements of EN166.

##### Skin protection

###### Hand protection

Wear protective gloves. Nitrile rubber are suitable. Wash hands thoroughly with soap and water after use.

###### Other body protection

None required

##### Respiratory protection

Use an appropriate CEN approved organic vapour mask or self-contained breathing apparatus if vapour is likely to be present.

##### Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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## SECTION 9: Physical and chemical properties

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### 9.1 Information on basic physical and chemical properties

a)	Physical State	Liquid
b)	Colour	Dark amber-brown.
c)	Odour	Characteristic savoury odour.
	Odour threshold	No test data.
d)	Melting/freezing point	No test data.
e)	Initial boiling point and boiling range	78°C to 100°C
f)	Flammability	Flammable and combustible liquid
g)	Lower and upper explosion limits	Ethanol: Lower Limit 3.5%v/v; Upper Limit 19.0%v/v
h)	Flash point	35°C (Closed cup)
i)	Auto-ignition temperature	Ethanol – 365°C
j)	Decomposition temperature	No test data.
k)	pH	Typically 5 – 8
l)	Kinematic viscosity	No test data - Mobile liquid.
m)	Solubility in	Water/Ethanol
n)	Partition coefficient: n-octanol/water	Ethanol: Log Pow = -0.32
o)	Vapour pressure	No test data.
p)	Density and/or Relative Density	Approx. 0.99 at 20°C
q)	Relative Vapour Density	For ethanol = 1.59.

### 9.2 Other information

None applicable.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No known specific reactivity hazards.

### 10.2 Chemical Stability

Stable under all expected conditions of storage and handling.

### 10.3 Possibility of hazardous reactions

None relevant.

### 10.4 Conditions to avoid

None applicable.

### 10.5 Incompatible materials

Strong oxidising agents.

### 10.6 Hazardous decomposition products

None known.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.



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### Skin corrosion/irritation

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

### Serious eye damage/Irritation

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

### Respiratory or skin sensitisation

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met. However, as a natural extract skin sensitisation reactions are possible.

### Germ cell mutagenicity

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

### Carcinogenicity

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

### Reproductive toxicity

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

### STOT-single exposure

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

### STOT-repeated exposure

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

### Aspiration hazard

Based on available data on the hazardous constituents identified in Section 3, the classification criteria are not met.

## 11.2 Information on other hazards

### Endocrine disrupting properties

No constituents are reported to have endocrine disrupting properties.

### Additional information

None applicable.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish	No data available for product. No constituents are classified with respect to toxicity to fish.
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<b>Toxicity to Daphnia and other aquatic invertebrates</b>	No data available for product. No constituents are classified with respect to toxicity to aquatic invertebrates.
<b>Toxicity to algae</b>	No data available for product. No constituents are classified with respect to toxicity to algae.

### 12.2 Persistence and degradability

Based on available data on the hazardous constituents identified in Section 3, the product is expected to readily biodegrade.

### 12.3 Bioaccumulative potential

Based on available data on the hazardous constituents identified in Section 3, the product is unlikely to bioaccumulate.

### 12.4 Mobility in soil

For the hazardous constituents identified in Section 3: Ethanol is expected to have a very high mobility in soil.

### 12.5 Results of PBT and vPvB assessment

The mixture contains no constituents which are classified as PBT or vPvB.

### 12.6 Endocrine disrupting properties

No constituents are reported to have endocrine disrupting properties.

### 12.7 Other adverse affects

No information.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Dispose of product through a suitable licenced waste disposal contractor.

#### Contaminated packaging

Rinse containers and send for recycling.

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## SECTION 14: Transport Information

This product is classified as non-hazardous for transportation by all modes under Special Provisions:

ADR (Road) /IMDG (Sea): Special Provision 144

IATA (Air): Special Provision A58

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### SECTION 15: Regulatory information

This safety data sheet has been compiled in accordance with the requirements of Regulation (EC) No. 1907/2006.

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

None applicable.

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

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### SECTION 16: Other information

#### Changes made in this update to the safety data sheet

Review of the Safety Data Sheet in line with the requirements of Regulation (EC) No. 1907/2006. All changes are marked.

#### References used in compilation of this safety data sheet

Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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

Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) 2023 Edition

International Maritime Dangerous Goods Code 2022 Edition

IATA Dangerous Goods Regulations 64<sup>th</sup> Edition 2023

Martindale, 35th edition, pages 1462 (Ethanol).

C&L Inventory online, ECHA Website, European Chemicals Agency, <http://echa.europa.eu/>.

#### Methods of evaluation used for classification of this mixture under Article 9 of Regulation (EC) No. 1272/2008

This safety data sheet has been produced using expert judgement based on the classification of constituents of this product as allowed under Article 9.

#### Full text of H-statements referred to under other Sections

H225 – Highly flammable liquid and vapour.

H226 – Flammable liquid and vapour.

H319 – Causes serious eye irritation.

#### Training recommended to be carried out prior to use of this material

All staff handling this material must be suitably trained in the safe use of chemicals in the relevant industry/workplace.

The information contained herein is, to the best of our knowledge, true and accurate. Any recommendations or suggestions are made without obligation on our part and the Company can accept no liability to any customer, their employees or any other person whatsoever for any loss, injury or damage whether direct or consequential, which may be caused by an error or omission from this sheet if negligent or otherwise.