

SAFETY DATA SHEET

LIMMOSHINE

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

LIMMOSHINE

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

Animal Show Product

1.3 Emergency telephone number

Nearest anti-poison centre or Guy's Hospital Poisons Unit, LONDON SE14 SER. (00 44)(1 71) 6 35 91 91

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

- Flammable liquid, category 3.
- Specific target organ toxicity - single exposure, category 3.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

- Flammable.
- Vapours may cause drowsiness and dizziness.

2.2 Label Elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Pictogram(s):



Signal Word (s):

- DANGER

Hazard Statement(s):

- H226 – Flammable liquid and vapour.
- H336 – May cause drowsiness or dizziness.

Precautionary Statement(s):

- P102 – Keep out of reach of children.
- P210 – Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P233 – Keep container tightly closed.
- P243 – Take precautionary measures against static discharge.
- P271 – Use only outdoors or in a well-ventilated area.
- P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Supplemental Hazard Statement(s):

- None.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard Symbol(s):



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R-Phrase(s):

- R10 Flammable
- R67 Vapours may cause drowsiness and dizziness.

S-Phrase(s):

- S2 Keep out of the reach of children.
- S16 Keep away from sources of ignition.
- S23 Do not breathe vapour.
- S51 Use only in well ventilated areas.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**Composition:**

Component	CAS	EINECS	CHIP CLASS.	CLP CLASS.	%
Ethanol	64-17-5	200-578-6	F; R11, R67.	Flam. Liq. 2: H225. Eye Irrit. 2: H319. STOT SE 3: H336.	30-50%
Methanol	67-56-1	200-659-6	F; R11, T; R23/24/25, R39/23/24/25.	Flam. Liq. 2: H225. Acute Tox. 3: H301. Acute Tox. 3: H311. STOT SE 1: H370.	1-5%

See Section 16 for the full text of the R-phrases and H statements declared above.

SECTION 4. FIRST AID MEASURES**4.1 Description of first aid measures****Notes to the physician:**

- No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

In the event of exposure by inhalation:

- Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position. Call a physician immediately.

In the event of splashes or contact with eyes:

- Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

In the event of splashes or contact with skin:

- Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

In the event of swallowing:

- Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Vapours may cause headache, fatigue, dizziness and nausea. In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.

4.3 indication of any immediate medical attention and special treatment needed

- No Data Available.

SECTION 5. FIREFIGHTING MEASURES**5.1 Extinguishing media**

- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

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- The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Flash back possible over considerable distance. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, Carbon dioxide (CO₂)

5.3 Advice for firefighters

- In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)
- Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise - with risk of bursting.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Consult the safety measures listed under headings 7 and 8.

For non fire-fighters

- If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For fire-fighters

- Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

- Collect as much as possible in a clean container for (preferable) reuse or disposal.

6.3. Methods and material for containment and cleaning up

- Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4. Reference to other sections

- No data available.

SECTION 7. HANDLING AND STORAGE

- Requirements relating to storage premises apply to all facilities where the mixture is handled.
- Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

- Always wash hands after handling.
- Remove and wash contaminated clothing before re-using.

Recommended equipment and procedures:

- For personal protection, see section 8.
- Observe precautions stated on label and also industrial safety regulations
- Avoid skin and eye contact with this mixture.

Prohibited equipment and procedures:

- No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

- Store between 4°C and 25°C in a dry, well ventilated place.
- Combustible liquid. Keep away from sources of ignition - No smoking. The vapour may be invisible, heavier than air and spread along ground. Vapours may form explosive mixtures with air. Take measures to prevent the build up of electrostatic charge.

Storage

- Keep the container tightly closed in a dry, well-ventilated place

Packaging

- Always keep in packaging made of an identical material to the original

7.3. Specific end use(s)

- The identified uses for this product are detailed in Section 1.2.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

Component	List	Type	Value
Ethanol	UK WEL	TWA	1000mg/m3
Methanol	UK WEL	STEL	333mg/m3
Methanol	UK WEL	TWA	266mg/m3

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

- Eye / face protection

- Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.

- Skin Protection:

- When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task.

Hand protection

- Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

- Respiratory protection

- Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process.
- In case of insufficient ventilation, wear suitable respiratory equipment.
- Use respirator with appropriate filter if vapours or aerosol are released.
- Recommended Filter type: A.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state:	Liquid
Colour	Clear, orange.
Odour	Slight, alcohol.
pH of the substance or preparation:	Approx. 4.50
Flash point interval:	30 Deg C
Vapour pressure:	not determined
Relative Density:	0.91
Water solubility:	Miscible in all proportions

9.2. Other information

- No data available.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

- No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

- This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

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- Exothermic reaction with strong acids. Incompatible with oxidizing agents.

10.4. Conditions to avoid

- Heat, flames or sparks.
- 10.5. Incompatible materials**
- Keep away from: Strong oxidising agents, strong acids.

10.6. Hazardous decomposition products

- Under fire conditions: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Mixture:

- No toxicological data available for the mixture.

Component Toxicology:

Component	Test	Type	Value
Ethanol	Acute Oral Toxicity	LD50, Rat-Male, Female	1470mg/kg
Ethanol	Skin Absorption	LD50, Rabbit	17100mg/kg
Ethanol	Inhalation	LC50, 4 h, Vapours, Rat	124.7mg/kg
Methanol	Acute Oral Toxicity	LD50, Rat-Male, Female	1187 - 2769mg/kg
Methanol	Skin Absorption	LD50, Rabbit	17100mg/kg
Methanol	Inhalation	LC50, 4 h, Vapours, Rat	128.2mg/kg

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Component Ecotoxicology:

Component	Test	Type	Value
Ethanol	Fish	96H LC50	13000mg/l
Ethanol	Daphnia	48H EC50	12340mg/l
Ethanol	Algae	72H EC50	12900mg/l
Methanol	Fish	96H LC50	15400mg/l
Methanol	Daphnia	48H EC50	>1000mg/l
Methanol	Algae	72H EC50	22000mg/l

12.2. Persistence and degradability

- Ethanol: The product is biodegradable. Oxidises rapidly by photochemical reactions in air.
- Methanol: The product is biodegradable. Oxidises rapidly by photochemical reactions in air.

12.3. Bioaccumulative 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. Other adverse effects

- No known significant effects or critical hazards

SECTION 13. DISPOSAL CONSIDERATIONS

- Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Waste:

- Must be disposed of in accordance with local and national regulations.

Soiled packaging:

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- Dispose of as normal industrial waste. If empty containers are recycled or disposed of, the receiver must be informed about possible hazards. NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14. TRANSPORT INFORMATION

14.1 UN Number

UN Number: 1170

14.2 UN proper shipping name

Shipping name: Ethanol Solution (Flash Point 30 Deg C).

14.3 Transport hazard class(es)

Transport class: 3

14.4 Packing group

Packing group: III

14.5 Environmental hazards

Environmentally Hazardous: No

Marine Pollutant: No

SECTION 15. REGULATORY INFORMATION

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

- Particular provisions:

- No data available.

15.2. Chemical safety assessment

- No data available.

SECTION 16. OTHER INFORMATION

- Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.
- It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
- The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.
- To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein
- Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

Full Text of abbreviated H Statements:

H225 – Highly flammable liquid and vapour.

H301 – Toxic if swallowed.

H311 – Toxic in contact with skin.

H319 – Causes serious eye irritation.

H336 – May cause drowsiness or dizziness.

H370 – Causes damage to organs.

Full Text of abbreviated R-Phrases:

R11 – Highly flammable.

R23 – Toxic by inhalation.

R24 – Toxic in contact with skin.

R25 – Toxic if swallowed.

R39/23/24/25 – Danger of very serious irreversible effects by inhalation, in contact with skin and if swallowed.

R67 – Vapours may cause drowsiness and dizziness.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.