LIVE STEAM GEL SAFETY DATA SHEET

Issued: March 2024

SECTION 1: Identification

1.1 GHS Product identifier

Product name - Live Steam Gel

1.2 Other means of identification

Product number 5060372670794

Other names Glycol based gel

1.3 Recommended use of the chemical and restrictions on use

Identified uses Fuel gel for live steam models

Uses advised against no data available

1.4 Supplier's details

Company Milbury Models Ltd (Trading Name of Berrybrook Motors Ltd. Company No. 04395830)

Address Dawlish Road, Exminster, Exeter, EX6 8DN, United Kingdom

Telephone 01392 715322

Email info@milburymodels.co.uk

Website www.milburymodels.co.uk

1.5 Emergency phone number

Emergency phone number 01392 715322

Service hours Monday to Friday, 9am-5pm (GMT/+1 BST)

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Not classified under GHS Classification and labelling, based on CLP reg. No 1272/2008

Non-Hazardous. The information provided in this datasheet is given for guidance only.

2.2 GHS label elements, including precautionary statements

Pictogram(s) No symbol.

Signal word This substance is not classified as dangerous according to GHS.

Hazard statement(s) This substance is not classified as dangerous according to GHS.

Precautionary statement(s)

Prevention This substance is not classified as dangerous according to GHS.

Response This substance is not classified as dangerous according to GHS.

Storage This substance is not classified as dangerous according to GHS.

Disposal This substance is not classified as dangerous according to GHS.

2.3 Other hazards which do not result in classification

This product does not need to be labelled in accordance with EC directives or respective national laws.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name Common names and synonyms CAS number

Glycol based gel Glycol based gel Proprietary

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

- **If inhaled**
  Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.
- **Following skin contact**
  Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.
- **Following eye contact**
  Rinse with pure water for at least 15 minutes. Consult a doctor.
- **Following ingestion**
  Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Centre immediately.

4.2 Most important symptoms/effects, acute and delayed

No data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

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

5.2 Specific hazards arising from the chemical

No data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

Workers – Dermal; Long term systemic effects: 40mg/kg/day

Workers – inhalation; Short term local effects: 50mg/m^3

General population – Dermal; Long term systemic effects: 20mg/kg/day

General population – inhalation; Short term local effects: 25mg/m^3

Biological limit values

Fresh water; 10mg/l

Marine water; 1mg/l

Intermittent release; 10mg/l

Sediment; 46mg/kg/day

Soil; 3.32mg/kg/day

STP; 10mg/l

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

- **Eye/face protection**

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

- **Skin protection**

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

- **Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

- **Thermal hazards** No data available

SECTION 9: Physical and chemical properties and safety characteristics

Physical state Thixotropic gel / complex fluid

Colour White

Odour Almost odourless

Melting point/freezing point -7ºC

Boiling point or initial boiling point and boiling range

294ºC

Flammability Not applicable

Lower and upper explosion limit/flammability limit Lower flammable/explosive limit: 0.9%
Upper flammable/explosive limit: ~9.2%

Flash point 177ºC

Auto-ignition temperature 347ºC

Decomposition temperature no data available

pH pH (diluted solution) 7.4 @ 50% aq

Dynamic viscosity 20,000 mPas

Solubility Miscible with the following materials: Water, Hydrocarbons.

Partition coefficient n-octanol/water -1.75

Vapour pressure <0.01 hPa at 20 ºC

Density and/or relative density 1g/cm3

Relative vapour density 5.2

Particle characteristics no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Hazardous reactions will not occur under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Avoid exposure to high temperatures. Keep at temperature not exceeding 80 ºC.

Keep container tightly sealed when not in use. The substance is hygroscopic and will absorb water by contact with moisture in the air.

10.5 Incompatible materials

Oxidising agents.

10.6 Hazardous decomposition products

Thermal decomposition generates: Carbon oxides

SECTION 11: Toxicological information

Acute toxicity Shall not be classified as acutely toxic.

Skin corrosion/irritation Shall not be classified as corrosive/irritant to skin.

Serious eye damage/irritation Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization Shall not be classified as a respiratory or skin sensitiser.

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 reproductive toxicant.

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

STOT-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.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish: Shall not be classified as hazardous to the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates: Shall not be classified as hazardous to the aquatic environment.

Toxicity to algae: Shall not be classified as hazardous to the aquatic environment.

Toxicity to microorganisms: Shall not be classified as hazardous to the aquatic environment.

The substance is readily biodegradable. The relevant substances of the mixture are readily biodegradable.

12.2 Persistence and degradability The product is readily biodegradable.

12.3 Bioaccumulative potential Bioaccumulation is unlikely. Partition coefficient: -1.75

12.4 Mobility in soil This product is soluble in water

12.5 Other adverse effects Not classified as PBT or vPvB.

SECTION 13: Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1 UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

14.3 Transport hazard class(es)

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

14.4 Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)

14.5 Environmental hazards

ADR/RID: No IMDG: No IATA: No

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Composition name Live Steam Fuel gel

Common names and synonyms Glycol based gel

15.1.1 EU regulations: Authorisations and/or restrictions on use None anticipated

15.1.2 National regulations: None assigned

15.2 Chemical Safety Assessment: No Chemical Safety Assessment (CSA) has been carried out

SECTION 16: Other information

Information on revision

Creation Date March 2024

Revision Date March 2026

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods

- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

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/AND). International

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

ECHA - European Chemicals Agency, website: https://echa.europa.eu/