

## Safety data sheet

REACH: Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 29.03.2021

Version number 8

Revision: 29.03.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier:**
- **Trade name: Gel Fuel (Ethanol)**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Application of the substance / the mixture:** Gelled Ethanol Fuel for use in chaffing dishes
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Tangshan Burak Hotel Supplies Co. Ltd  
Xiaodaodi Village East, Chahe Town, Fengnan  
DistrictTangshan, Hebei, China. PC: 064002  
+86-315-234 6093
- **1.4 Emergency telephone number:** +86-315-234 6093

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



health hazard

STOT SE 2 H371 May cause damage to the central nervous system and the visual organs.



Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word:** Danger
- **Hazard-determining components of labelling:**  
Ethanol  
Methanol
- **Hazard statements:**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

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· **After swallowing:**

Rinse mouth with water.

Never give anything by mouth to an unconscious person.

Do not induce vomiting without medical advice.

Call a doctor if irritation or symptoms develop.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet.

· **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:** Do not allow to enter sewers, surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Remove all sources of ignition.

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents

Dispose of the material collected according to regulations.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with skin, eyes and clothing.

Do not take internally.

Prevent formation of aerosols.

· **Information about fire and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool, dry place away from sparks and flame.

· **Information about storage in one common storage facility:** Not required.

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· **Further information about storage conditions:**

- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**64-17-5 Ethanol**

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

**67-56-1 Methanol**

WEL Short-term value: 333 mg/m<sup>3</sup>, 250 ppm  
Long-term value: 266 mg/m<sup>3</sup>, 200 ppm  
Sk

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Use adequate exhaust ventilation to prevent inhalation of product vapors.

· **Respiratory protection:** Not required.

· **Hand protection**



Protective gloves

· **Material of gloves:** Rubber gloves

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Colour:**

Green

· **Odour:**

Alcohol-like

· **Melting point/freezing point:**

Not determined.

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· <b>Boiling point or initial boiling point and boiling range</b>	78 °C
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	3.5 Vol %
· <b>Upper:</b>	15.0 Vol %
· <b>Flash point:</b>	13 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH @ 20 °C</b>	7.5-8.5 (as is)
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure @ 20 °C:</b>	59 hPa (64-17-5 Ethanol)
· <b>Density and/or relative density</b>	
· <b>Density @ 20 °C:</b>	0.85 g/cm <sup>3</sup>
· <b>Relative density:</b>	Not determined.
· <b>Vapour density:</b>	Not determined.
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Gel
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	425 °C (64-17-5 Ethanol)
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	70 %
· <b>Change in condition</b>	
· <b>Evaporation rate:</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Non-Regulated Material
· <b>Flammable gases</b>	Non-Regulated Material
· <b>Aerosols</b>	Non-Regulated Material
· <b>Oxidising gases</b>	Non-Regulated Material
· <b>Gases under pressure</b>	Non-Regulated Material
· <b>Flammable liquids</b>	Highly flammable liquid and vapour.
· <b>Flammable solids</b>	Non-Regulated Material
· <b>Self-reactive substances and mixtures</b>	Non-Regulated Material
· <b>Pyrophoric liquids</b>	Non-Regulated Material
· <b>Pyrophoric solids</b>	Non-Regulated Material
· <b>Self-heating substances and mixtures</b>	Non-Regulated Material
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Non-Regulated Material
· <b>Oxidising liquids</b>	Non-Regulated Material
· <b>Oxidising solids</b>	Non-Regulated Material
· <b>Organic peroxides</b>	Non-Regulated Material
· <b>Corrosive to metals</b>	Non-Regulated Material

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· **Desensitised explosives**

Non-Regulated Material

### SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:**  
Heat, flame and ignition sources.  
Avoid strong oxidizers.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

#### 64-17-5 Ethanol

Oral	LD50	7060 mg/kg (Rat)
Inhalative	LC50/4 h	20000 mg/l (Rat)

#### 67-56-1 Methanol

Oral	LD50	5628 mg/kg (Rat)
Dermal	LD50	15800 mg/kg (Rabbit)
Inhalative	LC50/4 h	128.2 mg/l (Rat)
	LC50/96 hours	15400 mg/l (Trout)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT (Specific target organ toxicity)-single exposure**  
May cause damage to the central nervous system and the visual organs.  
May cause respiratory irritation.
- **STOT (Specific target organ toxicity)-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients are listed.

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### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**64-17-5 Ethanol**

EC50 34900 mg/l (Daphnia)

**67-56-1 Methanol**

EC50 22000 mg/l (Green algae)  
10000 mg/l (Daphnia)

- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
  - Not known to be hazardous to water.
  - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
  - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR/ADN, IMDG, IATA** UN1993
- **14.2 UN proper shipping name**
- **ADR/ADN** UN1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), methanol)
- **IMDG** FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), methanol)
- **IATA** FLAMMABLE LIQUID, N.O.S. (ETHANOL, methanol)

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· **14.3 Transport hazard class(es)**

· **ADR/ADN**



Limited Quantity

· **Class** 3 (F1) Flammable liquids.  
· **Label** 3

· **IMDG, IATA**



Limited Quantity

· **Class** 3 Flammable liquids.  
· **Label** 3+ID8000

· **14.4 Packing group**

· **ADR/ADN, IMDG, IATA** II

· **14.5 Environmental hazards:** Not applicable.

· **14.6 Special precautions for user** Warning: Flammable liquids.

· **Hazard identification number (Kemler code):** 33

· **EMS Number:** F-E,S-E

· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

· **Transport/Additional information:**

· **ADR/ADN**

· **Limited quantities (LQ)** 1L  
· **Transport category** 2  
· **Tunnel restriction code** D/E

· **IMDG**

· **Limited quantities (LQ)** 1L  
· **UN "Model Regulation":** UN1993, FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), methanol), 3, II

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

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· **National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **\* Data compared to the previous version altered.**

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