

**Liquid Safety Fuel****MATERIAL SAFETY DATA SHEET****MSDS****Section 1 - Product and Company Identification**

**Product name:** Liquid Safety Fuel  
**Manufacturer name:** 7 Penn  
**Manufacturer address:** 501 E. 1st Street  
 Tea, SD 57064  
**Post code:** 225267  
**Fax:** +86-514-86827587  
**Emergency phone number:** +86-514-86827488  
**MSDS number:** DG103429  
**Effective date:** September 20, 2012

**Section 2 - Hazard Identification**

**Hazard description:** Not Dangerous Goods  
**Skin contact:** Harmful if absorbed through skin. Causes skin irritation.  
**Eye contact:** Causes serious eye irritation.  
**Ingestion:** Harmful if swallowed.  
**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.  
**Environmental hazards:** Be harmful to the environment

**Section 3 - Composition/Information on Ingredients**

Component	Concentration (by weight)	CAS No.	EC No.	Hazard label
Diethylene glycol	Business confidential	111-46-6	203-872-2	Not Dangerous Goods

**Section 4 - First Aid Measures**

**After skin contact:** Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.  
**After eye contact:** Rinse opened eye for fifteen minutes under running water. Then consult a doctor.  
**After ingestion:** Don't induce vomiting. Rinse mouth with water. Consult a physician.  
**After inhalation:** Move person into fresh air. Consult a physician immediately.

**Section 5 - Fire Fighting Measures**

**Hazardous products of combustion:** Carbon oxides  
**Extinguishing method:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
**Special protective equipment :** Wear self-contained respirator and fully protective impervious suit.

### Section 6 - Accidental Release Measure

<b>Personal precautions:</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental precautions:</b>	Do not let product enter drains.
<b>Methods for cleaning up:</b>	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### Section 7 - Handling and Storage

<b>Handling:</b>	Use personal protective equipment. Avoid contact with skin and eyes. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Keep away from sources of ignition – No smoking.
<b>Storage:</b>	Keep container tightly closed in a dry and well-ventilated place.

### Section 8 - Exposure Controls, Personal Protection

<b>Engineering Controls:</b>	Safety shower and eye bath. Mechanical exhaust required.
<b>Respiratory protection:</b>	Use a full-face supplied air respirator.
<b>Eye protection:</b>	Wear chemical goggles
<b>Body protection:</b>	Protective work clothing
<b>Hand Protection:</b>	Wear rubber gloves
<b>Other protection:</b>	Keep away from smoking, beverage and food. Wash hands before break and at the end of work.

### Section 9 - Physical and Chemical Properties

<b>Appearance:</b> colorless viscous liquid	<b>Melting point (°C):</b> -10.0
<b>Flash point (°C):</b> 124 (closed cup)	<b>pH:</b> No data available
<b>Boiling point (°C):</b> 245.8	<b>Vapor Density (air=1g/mL):</b> 3.66
<b>Relative Density (water=1g/mL):</b> 1.12 (20°C)	<b>Critical temperature (°C):</b> No data available
<b>Vapor Pressure:</b> 0.13(91.8°C)	<b>Upper explosive limit% (V/V):</b> 2%
<b>Critical pressure (MPa):</b> No data available	<b>Lower explosive limit% (V/V):</b> 12.3%
<b>Ignition point (°C):</b> 228	
<b>Water solubility:</b> Soluble in water; insoluble in benzene, methyl benzene and tetra chloromethane.	

### Section 10 - Stability and Reactivity

<b>Stability:</b>	Stable under recommended storage conditions
<b>Substances to avoid:</b>	Keep away from strong oxidizing agents and strong acids,
<b>Condition to avoid contact:</b>	Heat, flames and sparks.
<b>Hazardous decomposition products:</b>	Carbon oxide and carbon dioxide

### Section 11 - Toxicological Information

<b>Acute toxicity:</b>	LD <sub>50</sub> (rat, oral) 12565 mg/kg; LD <sub>50</sub> (rabbit, oral) 4400 mg/kg; LD <sub>50</sub> (rabbit, dermal) 11890 mg/kg
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<b>Irritation and corrosion:</b>	May cause eye and skin irritation
<b>Sensitisation</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available

### Section 12 - Ecological Information

<b>Ecotoxicity:</b>	LC <sub>50</sub> —Pimephales promelas (fathead minnow) 75200 mg/L (96 h) LC <sub>50</sub> —Carassius auratus 5000 mg/L (24 h)
<b>Biodegradability:</b>	No data available
<b>Non biodegradability</b>	No data available
<b>Bioaccumulation:</b>	No data available
<b>Other hazard:</b>	Be harmful to the environment.

### Section 13 - Disposal Considerations

<b>Property of waste</b>	No data.
<b>Methods of disposal:</b>	Dispose of in a manner consistent with federal, state, and local regulations. Burning method is recommended.
<b>Precautions of disposal:</b>	No data.

### Section 14 - Transport Information

**IMDG:** Not dangerous goods  
**IATA:** Not dangerous goods

### Section 15 - Regulatory Information

**US Toxic Substances Control Act (TSCA):**

Diethylene glycol is listed on the TSCA inventory.

**Canadian Regulations:**

Diethylene glycol is listed on Canada's DSL List

Diethylene glycol is not listed on Canada's Ingredient Disclosure List

**European Regulations:**

Risk Phrases: R22 Harmful if swallowed.

Safety Phrases: S2 Keep out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container or label.

### Section 16 - Additional Information

<b>Prepared by:</b>	Changzhou Testing and Technical Center of Dangerous Goods and Packing
<b>Completion Date:</b>	September 19, 2012
<b>Modification statement:</b>	Original

**Other information:**

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