

## 1 Identification

**Product Name:** EASY HEATERS CATERING FUEL

**Other Means of Identification:** Mixture

**Other Name:**

2,2-Oxydiethanol

Diethylene glycol

2,2-Dihydroxydiethyl ether

2 hrs, 3 hrs, 4 hrs, 5 hrs, 6 hrs

**Product Code:** EOS02, EOD04, EOD05, EOD06, RC04, RC06

**Recommended Use of the Chemical and Restriction on Use:**

A liquid catering fuel. The fuel, diethylene glycol, is delivered via a wick protruding from a closed metal can. The product's wick is ignited and burned to provide heat for food warming applications.

**Details of Manufacturer or Importer:**

Easy Heaters Pty Ltd

3/15 Craftsman Avenue

Berkeley Vale NSW 2261

**Phone Number:** 02 4389 4144

**Emergency telephone number:**

02 4389 4144 (Monday to Friday 6.00am to 3.00pm)

0418 693 478

## 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition), IATA and IMDG/IMSBC.



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

**Signal Word** Warning

**Hazard Statements**

H302 Harmful if swallowed.

**Precautionary Statements**

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national regulations.


## 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures**

**Description:** Mixture: consisting of the following components.

**Hazardous Components:**

CAS: 111-46-6 Diethylene glycol

 Acute Toxicity (Oral) 4, H302 ≥99.5%

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## according to WHS Regulations

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### 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if irritation persists.

**Eye Contact:**

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Symptoms Caused by Exposure:**

Inhalation: May cause mild respiratory irritation. Occupational exposure exceeding recommended concentration limits (see section 8) may cause headache, anuria, narcosis, cyanosis, tachypnea, tachycardia, hypotension, stupor, prostration, hypoglycemia and unconsciousness.

Skin Contact: May cause skin irritation.

Eye Contact: Causes eye irritation.

Ingestion: Harmful if swallowed. May cause alcohol intoxication, muscle tenderness, pulmonary edema, convulsions and death.

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Foam, dry powder, carbon dioxide (CO<sub>2</sub>) and water spray.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon and various irritating toxic gases.

Product is not flammable. However, given the nature of this product, it's used as a fuel if soaked into a wick. This product will burn in a larger fire.

Containers close to fire should be removed only if safe to do so. Closed cans exposed to flame and heat may erupt, scattering fragments.

Prevent run-off from fire fighting entering drains or water courses.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

Inform respective authorities in case of seepage into water course or sewage system.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

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### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep in original container, tightly closed when not in use. Protect from direct sunlight, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:****CAS: 111-46-6 Diethylene glycol**WES | TWA: 100 mg/m<sup>3</sup>, 23 ppm**Engineering Controls:**

Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

**Respiratory Protection:**

Respiratory protection is not required under normal use conditions.

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Protective gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Liquid enclosed in a metal can with a wick
<b>Colour:</b>	Colourless
<b>Odour:</b>	Nearly odourless
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	7 - 8
<b>Melting point/freezing point:</b>	-6 °C
<b>Initial Boiling Point/Boiling Range:</b>	245 °C
<b>Flash Point:</b>	124 °C

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<b>Flammability:</b>	Flammable when used as intended (soaked into a wick)
<b>Auto-ignition Temperature:</b>	225 °C
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	0.7 Vol %
<b>Upper:</b>	22 Vol %
<b>Vapour Pressure at 20 °C:</b>	0.03 hPa
<b>Density:</b>	1.12 g/cm <sup>3</sup>
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Miscible
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity at 20 °C:</b>	38 mPa·s

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** No dangerous reactions known under conditions of normal use.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.

**Conditions to Avoid:** Direct sunlight, heat, sparks, open flames and other sources of ignition.

**Incompatible Materials:** Strong oxidising agents.

**Hazardous Decomposition Products:** Oxides of carbon and various irritating toxic gases.

### 11 Toxicological Information

**Toxicity:**

**LD50/LC50 Values:**

**CAS: 111-46-6 Diethylene glycol**

Oral	LD50	12,565 mg/kg (rat)
	LD50	11,890 mg/kg (rabbit)

#### Acute Health Effects

##### Inhalation:

May cause mild respiratory irritation. Occupational exposure exceeding recommended concentration limits (see section 8) may cause headache, anuria, narcosis, cyanosis, tachypnea, tachycardia, hypotension, stupor, prostration, hypoglycemia and unconsciousness.

**Skin:** May cause skin irritation.

**Eye:** Causes eye irritation.

##### Ingestion:

Harmful if swallowed. May cause alcohol intoxication, muscle tenderness, pulmonary edema, convulsions and death.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

##### Carcinogenicity:

Based on classification principles, the classification criteria are not met.

This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

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**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available

### 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**CAS: 111-46-6 Diethylene glycol**

LC50/96 h 75,200 mg/l (fathead minnow)

**Persistence and Degradability:** Expected to be biodegradable.**Bioaccumulative Potential:** This product will exhibit low bio-concentration in aquatic organisms.**Mobility in Soil:** Mobile when released into soil.**Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

### 14 Transport Information

**UN Number** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

### 15 Regulatory Information

**Australian Inventory of Industrial Chemicals:**

All ingredients are listed.

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 6

### 16 Other Information

**Date of Preparation or Last Revision:** 09.09.2022**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

**Data altered compared to the previous version:** Sections: 1, 3, 4, 5, 7, 10, 11, 12.**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020".

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