



**DUDA ENERGY LLC**

## **Safety Data Sheet PROPYLENE GLYCOL USP KOSHER**

### **SECTION 1: Identification**

#### **1.1 Product identifier**

Product name	PROPYLENE GLYCOL USP KOSHER
Product number	Unavailable
Brand	Unavailable
Substance name	1,2-PROPANEDIOL
EC no.	200-338-0
CAS no.	57-55-6

#### **1.2 Other means of identification**

Unavailable

#### **1.3 Recommended use of the chemical and restrictions on use**

Organic synthesis, especially for polypropylene glycol and polyester resins; antifreeze solutions; solvent for fats, oils, waxes, resins, flavoring extracts, perfumes, colors, soft-drink syrups, and antioxidants; cellophane; hygroscopic agent; coolant in refrigeration systems; plasticizers, hydraulic fluids; bactericide; textile conditioners; in foods as a solvent, wetting agent and humectant; emulsifier; feed additive; anticaking agent; preservative (retards mold and fungi); cleansing creams; suntan lotions; pharmaceuticals; brake fluids; deicing fluids for airport runways; substitute for ethylene glycol and glycerol; fermentation inhibitor; as a mist to disinfect air; heat exchangers; as humectant in textiles, tobacco, and pet foods; and in veterinary medicine as a glucogenic (orally) in ruminants.

#### **1.4 Supplier's details**

Name	Duda Energy LLC
Address	1112 Brooks St. Decatur, AL 35601 USA
Telephone	256.340.4866
Fax	Unavailable
email	Unavailable

#### **1.5 Emergency phone number(s)**

800.255.3924 (Chemtel)

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3 Other hazards which do not result in classification

None

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name	1,2-PROPANEDIOL
EC no.	200-338-0
CAS no.	57-55-6
Formula	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>
Molecular weight	76.1
Other names / synonyms	PROPYLENE GLYCOL USP; PROPYLENE GLYCOL; 1,2-PROPANEDIOL
Impurities and stabilizing additives	None

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Wear basic PPE to prevent exposure - splash resistant goggles, chemical resistant clothing.
If inhaled	Move to fresh air and consult a physician should effects occur.
In case of skin contact	Wash thoroughly with water.
In case of eye contact	Flush eyes thoroughly with water for several minutes. If contact lenses are present, remove after the first 1 to 2 minutes then flush for several more minutes. If symptoms arise, consult a physician.
If swallowed	Emergency medical treatment is not needed in case of ingestion.
Personal protective equipment for first-aid responders	No special protection is needed.

### 4.2 Most important symptoms/effects, acute and delayed

No known symptoms or effects from acute exposure.

Repeated, excessive exposure may cause issues with central nervous system.

- 4.3 Indication of immediate medical attention and special treatment needed, if necessary**  
None; treat symptomatically.

## **SECTION 5: Fire-fighting measures**

- 5.1 Suitable extinguishing media**  
Powder, alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>)  
DO NOT use water jet as this will cause the fire to spread.
- 5.2 Specific hazards arising from the chemical**  
Hazardous gases may develop during fire.
- 5.3 Special protective actions for fire-fighters**  
SCBA and protective gear should be worn in case of fire.

### **Further information**

Use standard firefighting methods and consider the hazards of other materials involved.

## **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Keep unnecessary personnel away. Use proper PPE.
- 6.2 Environmental precautions**  
Avoid discharge into drains, water courses, or onto the ground.
- 6.3 Methods and materials for containment and cleaning up**  
For large spills: If possible, stop the flow of material. Use water spray to reduce vapors if present. Dike spilled material. Absorb with dry sand, vermiculite, or earth and place waste into containers. Flush area with water.

For small spills: Any absorbent material. Collect in suitable and properly labeled open containers. Wash the spill site with large quantities of water.

### **Reference to other sections**

None

## **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling**  
Observe good general industrial hygiene practices.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Store tightly sealed in original container, away from incompatible materials.

### **Specific end use(s)**

None defined.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

### 1. Component 1 (trade secret)

TWA (Aerosol): 10 mg/m<sup>3</sup>

## 8.2 Appropriate engineering controls

Good ventilation should be used (10 air changes per hour is typically sufficient).

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

### Eye/face protection

Wear splash resistant goggles or glasses with side-walls/face shield.

### Skin protection

Wear appropriate chemical resistant clothing.

### Body protection

Goggles/face-shield, gloves, protective clothing

### Respiratory protection

In cases where ventilation is poor and airborne levels may rise, wear a respirator fitted with Organic vapor cartridges.

### Thermal hazards

N/A

### Environmental exposure controls

Unavailable

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Liquid
Odor	Odorless
Odor threshold	Unavailable
pH	N/A
Melting point/freezing point	-60
Initial boiling point and boiling range	188.2
Flash point	99
Evaporation rate	Unavailable
Flammability (solid, gas)	N/A
Upper/lower flammability limits	12.6% / 2.6%
Vapor pressure	0.02 kPa @ 25 °C
Vapor density	Unavailable
Relative density	1.0361 @ 20 °C
Solubility(ies)	Water, at 20 °C
Partition coefficient: n-octanol/water	log Pow: -1.07
Auto-ignition temperature	>400 °C
Decomposition temperature	Unavailable
Viscosity	Unavailable

Explosive properties  
Oxidizing properties

Not explosive.  
Not an oxidizer.

**Other safety information**

Unavailable.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Stable and non-reactive under normal conditions.

**10.2 Chemical stability**

Material remains stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reaction known under typical conditions.

**10.4 Conditions to avoid**

Contact with incompatible materials.

**10.5 Incompatible materials**

Strong oxidizing agents, strong bases, strong acids.

**10.6 Hazardous decomposition products**

Can include but are not limited to: Aldehydes, Alcohols, Ethers, Organic acids

**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

LD50, Rat, > 20,000 mg/kg

Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

LD50, Rabbit, > 2,000 mg/kg No deaths occurred at this concentration.

Acute inhalation toxicity

At room temperature, exposure to vapor is minimal due to low volatility. Mist may cause irritation of upper respiratory tract (nose and throat).

LC50, Rabbit, 2 Hour, dust/mist, 317.042 mg/l No deaths occurred at this concentration.

**Skin corrosion/irritation**

Not especially irritating to skin. Repeated exposure may cause some softening of the skin and flaking.

**Serious eye damage/irritation**

May cause temporary discomfort. Mist may cause irritation.

**Respiratory or skin sensitization**

Not considered a skin nor respiratory sensitizer.

**Germ cell mutagenicity**

No available data indicates that this material is mutagenic or genotoxic.

**Carcinogenicity**

No evidence suggests this material is carcinogenic.

**Reproductive toxicity**

Not expected to cause reproductive or developmental effects.

**Summary of evaluation of the CMR properties**

Unavailable

**STOT-single exposure**

Not classified as an STOT-SE

**STOT-repeated exposure**

In rare cases, excessive and repeated exposure may cause issues with the central nervous system.

**Aspiration hazard**

Not an aspiration hazard.

**Additional information**

None available.

## **SECTION 12: Ecological information**

**Toxicity**

Not classified as environmentally hazardous. Large or frequent spills may still have some damaging or harmful effects on the environment.

**Component 1**

EC50 - Daphnia magna (water flea) - >10000 mg/l - 48hrs

LC50 - Pimephales promelas (fathead minnow) - 710 mg/l - 96hrs

**Persistence and degradability**

Unavailable

**Bioaccumulative potential**

Partition coefficient n-octanol / water (log Kow): -0.92

**Mobility in soil**

Potential for mobility in soil is very high.

**Results of PBT and vPvB assessment**

Unavailable

**Other adverse effects**

None

## **SECTION 13: Disposal considerations**

**Disposal of the product**

Dispose of in accordance with any and all applicable regulations.

**Disposal of contaminated packaging**

Contaminated packaging should be disposed of only in accordance with all applicable regulations.

**Waste treatment**

Dispose of waste material in accordance with local regulations regarding the disposal of waste material.

**Sewage disposal**

Dispose of in accordance with any and all applicable regulations.

**Other disposal recommendations**

None

**SECTION 14: Transport information****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations specific for the product in question****Pennsylvania Right To Know Components**

Chemical name: 1,2-Propanediol

CAS number: 57-55-6

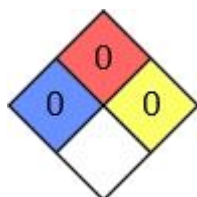
**New Jersey Right To Know Components**

Common name: PROPYLENE GLYCOL

CAS number: 57-55-6

**15.2 Chemical Safety Assessment**

N/A

**NFPA Rating****SECTION 16: Other information**

**16.1 Further information/disclaimer**

The information provided in this Safety Data Sheet is correct to the best of Duda Energy LLC's knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This Safety Data Sheet only contains information relating to safety and does not replace any product information or product specification. Please note, the content may be changed, corrected, or deleted at any time without notice and may not always necessarily reflect the most current data. Duda Energy LLC will assume no responsibility for any trouble or failure caused by the errors in the information provided, nor any damage associated with the usage of the information.

**16.2 Preparation information**

Version: 2  
Revised: 04-05-2017