

### Section 1: Chemical Product and Company Identification

#### 1.1 Product Identification

**Product Name (As Labelled):** Propylene Glycol USP  
**Synonyms:** Propylene Glycol  
**CAS#** Liquid  
**Catalog Number** PAH-034  
 PAH-035

#### 1.2 Product Use

##### 1.2.1 Relevant Identified Uses

**Industrial/Professional Use** For Veterinary use only  
**Intended Use** As an aid in the treatment of acetonemia (ketosis) in cattle and sheep

#### 1.3 Details of The Supplier of the Safety Data Sheet

##### 1.3.1 Manufacturer Name and Contact:

**Company Name** Partnar Animal Health Inc.  
**Address:** 14057 Ilderton Road, Ilderton, ON N0M 2A0  
**Telephone:** 1-866-690-4998  
**Website:** <http://www.partnaranimalhealth.ca/>  
**Date of Current Version:** November 17, 2016  
**Date of Last Revision:** New

### Section 2: Hazardous Identification

#### 2.1 Classification of The Substance/Mixture

This product does not meet the definition of a hazardous substance as defined by Hazardous Product Regulation(HPR) as implemented under the Work Hazardous Material Information System (WHMIS 2015)

#### 2.2 Adverse Physicochemical, Human Health and Environmental Effects

No additional information is available

### Section 3: Composition/ Information on Ingredients

Name	Product Identifier (CAS#)	WT%	GHS Hazard Classification
Propylene Glycol	57-55-6	Not less than 99.5 %(v/v)	Not classified

- Balance of other ingredients are less 1% in concentration (0.1 % for carcinogens, reproductive toxins, or respiratory sensitizers.

### Section 4: First Aid Measures

#### 4.1 Description of First Aid Measures

**First-aid measures general** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

**First-aid measures after skin contact** Remove affected clothing and wash all exposed skin area with with plenty of water.



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First-aid measures after eye contact	Rinse immediately with plenty of water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist
First-aid measures after ingestion	No emergency medical treatment necessary
First-aid measures after inhalation	If breathing becomes difficult, remove victim to fresh air. Seek medical attention.

### 4.2: Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/injuries	Not expected to a significant hazard under anticipated conditions of normal use.
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### 4.3: Indication of any Immediate Medical Attention and Special Treatment Needed

No additional information is available

## Section 5: Fire Fighting Measures

### 5.1 Extinguishable Media

Suitable extinguishing media	Water fog, fine spray. Dry chemical fire extinguisher. Carbon dioxide fire extinguisher. Foam. Alcohol resistant foams (ATC) are preferred. General purpose synthetic foam (including AFFF) or protein foams may function, but will be less effective.
Unsuitable extinguishing media	Do not use direct water system. May spread fire.
Unusual Fire & Explosion Hazards	Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids

### 5.2 Special Hazards Arising from the Substance or Mixture

During fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion product may include and are not limited to CARBON MONOXIDE and CARBON DIOXIDE.

### 5.3 Advice to Fire Fighter

Firefighting instructions	Exercise caution when fighting any chemical fire. Burning liquid may be extinguished by dilution with water. Do not use direct water stream. May spread fire.
Protection during firefighting	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing.

### Section 6: Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use cautious judgement when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

#### 6.2 Environmental Precautions

Stop leak. Contain spill if possible and safe to do so.

#### 6.3 Method and Material for Contaminant and Cleaning Up

Dispose of in accordance to Canada and its Provinces and U.S Federal, State and local hazardous waste disposal regulations.

### Section 7: Handling and Storage

#### 7.1 Precautions for Safe Handling

Spill of this organic materials on hot fibrous insulations may lead to lowering of the auto ignition temperatures possibly resulting in spontaneous combustion. Use good hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking and when leaving work. As with all chemicals, avoid getting this product ON YOU or IN YOU.

#### 7.2 Storage Conditions

Storage Conditions

Store away from direct sunlight or ultraviolet light. Store in original container or opaque HDPE plastic container. Keep container tightly closed when not in use Store in a dry place Protect from atmospheric moisture. Do not use after expiry date.

Storage Temperature

15-30 ° C

### Section 8: Exposure Controls-Personal Protection

#### 8.1 Exposure Parameters

Component	Regulation	Type of Listing	Value/Notation
Propylene Glycol	US WEEL	TWA	10 /mg/m <sup>3</sup>
	CA ON OEL	TWAE Total	155 mg/m <sup>3</sup> 50 ppm
	CA ON OEL	TWAEV	10 mg/m <sup>3</sup>
	CA ON OEL	TWA	155 mg/M <sup>3</sup> 50 ppm
	CA ON OEL	TWA	10 mg/m <sup>3</sup>
	CA ON OEL	TWA Vapor and aerosol	155 mg/M <sup>3</sup> 50 ppm
	CA ON OEL	TWA aerosol	

#### 8.2 Personal Protection

Personal Protective Equipment

Avoid all unnecessary exposure

Hand Protection

Chemical protective gloves should not be needed when handling this material. As with general hygienic practice for any material, skin contact should be minimized.

Eye Protection	Chemical goggles or safety glasses (with side shield)
Respiratory Protection	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirement or guideline. In misty atmosphere, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

**Section 9: Physical and Chemical Properties****9.1 Information on Basic Physical and Chemical Properties**

Physical State	Liquid
Colour	Colorless
Odour	Odourless
Odour Threshold	No data available
pH	Not Applicable
Melting Point	< -20 °C
Freezing Point	< -20 °C
Boiling Point	184 °C at 752.46 mmHg
Flash Point	<b>closed cup</b> 104 °C at 1,001 hPa
Evaporation Rate (Butyl Acetate=1)	0.01 Estimated
Auto Ignition Temperature	> 400 °C at 100.01 kPa
Decomposition Temperature	No data available
Vapour Pressure	20 Pa at 25 °C
Relative Vapour Density (air =1)	2.62
Relative Density (water =1)	1.03 at 20 °C
Solubility	100% at 20 °C
Viscosity	60,000-110,00 CPs
Explosive Property	Not explosive
Oxidizing Property	No

**Section 10: Stability and Reactivity****10.1 Reactivity**

No Data Available

**10.2 Stability**

Stable for 24 months under recommended storage condition from the date of manufacture.

**10.3 Possibility of Hazardous Reactions**

Polymerization will not occur

**10.4 Conditions to Avoid**

No Data available

**10.5 Hazardous Decomposition Product**



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Decomposition product depend upon temperature, air supply and presence of other material.  
Decomposition products can include and are not limited to: Aldehydes, Alcohols, Ethers, Organic acid

### 10.6 Incompatible Materials

Avoid contact with strong acid, strong bases and strong oxidizers.

## Section 11: Toxicological Information

### 11.1 Toxicity

Acute toxicity	<b>Acute oral toxicity:</b> Very low toxicity if swallowed. Harmful effect is not anticipated from swallowing small amount. LD <sub>50</sub> , Rat, > 20,000 mg/kg  <b>Acute dermal toxicity:</b> Prolonged skin contact is unlikely to result in absorption of harmful amounts. LD <sub>50</sub> , Rabbit, > 2,000 mg/kg  <b>Acute inhalation toxicity:</b> At room temperature, exposure to vapor is minimal due to low volatility. Mist may cause irritation of upper respiratory tract (nose and throat)
Skin corrosion/irritation	Prolonged contact is non-irritating to skin  Repeated contact may cause flaking and softening of skin
Serious eye damage/irritation	May cause slight temporary eye irritation
Respiratory or skin sensitisation	Did not cause allergic skin reactions when tested in humans
Carcinogenicity	Did not cause cancer in laboratory animals
Reproductive toxicity	In animal studies did not interfere with reproduction or fertility
Specific target organ toxicity (single exposure)	This material not an STOT-SE toxicant
Specific target organ toxicity (repeated exposure)	In rare cases,, repeated excessive exposure to propylene glycol may cause central nervous system effects
Aspiration hazard	Not likely to be an aspiration hazard

## Section 12: Ecological Information

### 12.1 Toxicity

Material is practically non-toxic to aquatic organisms on an acute basis

### 12.2 Mobility into Soil

Given the very low Henry constant, volatilization from natural bodies of water or moist soil is not expected

### 12.2 Other Adverse Effects

None known

### Section 13: Disposal Consideration

### 13.1 Waste Treatment Method

Waste disposal recommendation

Dispose in a safe manner in accordance with local/national regulations.

Ecology-waste material

Dispose in a safe manner in accordance with local/national regulations.

### Section 14: Transportation Information

Not regulated for transport

### Section 15: Regulatory Information

Complies with WHMIS 2015

### Section 16: Other Information

### 16.1 Abbreviations

<b>CA ON OEL</b>	Canada Ontario OELs
<b>TWA</b>	8-hr Time Weighted Average
<b>TWAEV</b>	Time-weighted average exposure value
<b>US WEEL</b>	USA Workplace Environmental Exposure Levels

### 16.2 Hazard Rating System

#### Hazardous Material Identification System

**1 HEALTH**  
**1 FLAMMABILITY**  
**0 REACTIVITY**

### 16.3 Disclaimer

The information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Partnar Animal Health Inc. and shall only be used as a guide. It is hereby expressly stated that the use of this information shall be solely at the user own risk, and that users shall have no claim(s) against Partnar Animal Health Inc. for any damage resulting from the use of this information and / or handling and or contact with the above product.