

Original Preparation Date: 01-Mar-2010

Revision Date: 19-Feb-2018

Revision Number: 2

## 1. Identification

**Product Name:**

USP-NF/FCC Propylene Glycol  
(Excipient/Food Use Only)

**Use of the Substance / Preparation:**

Excipient.

Level 7 Chemical  
255 Sturgis Rd  
Conway, AR 72034  
(855) 927-1777

**Emergency response telephone number:**  
Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

### Emergency Overview

Health injuries are not known or expected under normal use.

**Appearance**  
Clear Colorless

**Physical State**  
Viscous liquid

**Odor**  
Odorless

**This product is NOT classified as hazardous according to the criteria contained in the Hazard Communication Standard 29 CFR 1910.1200 (known as HCS 2012) or the Hazardous Products Regulations SOR/2015-17 (known as WHMIS 2015).**

## 3. Composition/information on ingredients

**Chemical Family** Glycols  
**Molecular Formula** C<sub>3</sub>H<sub>8</sub>O<sub>2</sub>

**Non-hazardous Components**

Chemical Name	CAS-No	Weight %	North American Substance Hazard Class
1,2-Propylene glycol	57-55-6	99.5	None known
Water	7732-18-5	0.2	None known

## 4. First-aid measures

**Description of first aid measures**

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids.

**Skin Contact** Wash off with warm water and soap.

**Inhalation** Move to fresh air.

**Ingestion** Clean mouth with water and afterwards drink plenty of water.

**General Advice** When symptoms persist or in all cases of doubt seek medical advice.

**Most important symptoms and affects, both acute and delayed**

**Eyes** Contact with eyes may cause irritation.

**USP-NF/FCC Propylene Glycol (Excipient/Food Use Only)**

**Skin** May cause slight skin irritation. Repeated exposure may cause skin dryness or cracking. Contact with product at elevated temperatures can result in thermal burns.

**Inhalation** Avoid breathing vapors or mists. Inhalation of aerosol may cause irritation to respiratory tract.

**Ingestion** Health injuries are not known or expected under normal use. May be harmful if swallowed. (dependent on amounts)

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

**Notes to Physician** Treat symptomatically.

**5. Fire-fighting measures****Flammable Properties**

Material may pose fire hazard because it is dispersed (or spread) by water.

**Extinguishing media**

**Suitable Extinguishing Media** Dry powder. Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>) Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

**Special hazards arising from the substance or mixture**

**Hazardous Combustion Products** Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

**Specific Hazards Arising from the Chemical** Vapors are heavier than air and may spread along floors. The pressure in sealed containers can increase under the influence of heat. Fire or intense heat may cause violent rupture of packages.

**Sensitivity to mechanical impact** No information available.

**Sensitivity to static discharge** No information available.

**Advice for fire-fighters**

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

**Health** 0

**Flammability** 1

**Stability and Reactivity** 0

**Physical hazard** None known

**6. Accidental release measures****Personal Precautions, Protective Equipment, and Emergency Procedures**

Ensure adequate ventilation. Avoid high pressure washing or generation of aerosols. Use personal protective equipment. Material can create slippery conditions.

**Environmental Precautions**

Prevent further leakage or spillage if safe to do so.

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

Clean-up methods - small spillage. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Clean contaminated surface thoroughly. Clean-up methods - large spillage. Dam up. Take up mechanically and collect in suitable container for disposal.

**7. Handling and storage****Handling**

Ensure adequate ventilation.

**Storage**

Keep at temperature not exceeding 40°C / 104°F. Keep containers dry and tightly closed to avoid moisture absorption and contamination. To maintain product quality, do not store in heat or direct sunlight.

## 8. Exposure controls/Personal protection

### Exposure Limits

This product is not known to contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Biological Limit Values

No biological limit values have been listed for the component(s) of this product.

### Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas.

### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

### Personal Protective Equipment

#### Eye/face Protection.

Safety glasses with side-shields. If splashes are likely to occur, wear goggles

#### Skin and Body Protection

Long sleeved clothing. Protective gloves if desired. Special protective equipment is generally not required.

#### Respiratory Protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection.



## 9. Physical and chemical properties

<b>Appearance</b>	Clear Colorless
<b>Physical State</b>	Viscous liquid
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH</b>	Approx. 7
<b>Flash Point</b>	99 °C / 210 °F (Cleveland Open cup)
<b>Autoignition Temperature</b>	371 °C / 700 °F
<b>Boiling point</b>	Approx. 188 °C / 370 °F (760 torr)
<b>Melting/Freezing Point</b>	Approx. -60 °C / -76 °F
<b>Decomposition temperature</b>	No information available
<b>Oxidizing Properties</b>	No information available
<b>Flammability Limits in Air</b>	Upper: 12.6 Lower: 2.6 (25°C,760 mmHg)
<b>Molecular Weight</b>	76.09 g/mol
<b>Water Solubility</b>	Miscible
<b>Solubility(ies)</b>	Soluble in essential oils. Miscible with Acetone and chloroform. Immiscible with fixed oils.
<b>Evaporation Rate</b>	< 0.01 [Butyl acetate = 1.0]
<b>Vapor Pressure</b>	0.08 mmHg at 20 °C
<b>Vapor Density</b>	2.6 (Air = 1.0)
<b>Specific Gravity / Relative Density</b>	1.04 20°C (H <sub>2</sub> O = 1)
<b>Partition Coefficient (n-octanol/water)</b>	-1.07

## 10. Stability and reactivity

**Stability** Stable under normal conditions.

**Possibility of Hazardous Reactions** Hazardous polymerization does not occur.

**Conditions to Avoid** Extremes of temperature and direct sunlight.

**Incompatible Materials** No materials to be especially mentioned.

**Hazardous Decomposition Products** Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## USP-NF/FCC Propylene Glycol (Excipient/Food Use Only)

## 11. Toxicological information

Information on toxicological effects

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.			
<b>Chemical Name</b>	<b>Weight %</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
1,2-Propylene glycol	99.5	20000 mg/kg Rat	20800 mg/kg Rabbit	>317042mg/m <sup>3</sup> air (Rabbit)
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.			
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.			
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.			
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.			
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.			
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.			
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.			
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.			
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.			

Potential health effects

<b>Eyes</b>	Contact with eyes may cause irritation.
<b>Skin</b>	May cause slight skin irritation. Repeated exposure may cause skin dryness or cracking. Contact with product at elevated temperatures can result in thermal burns.
<b>Inhalation</b>	Avoid breathing vapors or mists. Inhalation of aerosol may cause irritation to respiratory tract.
<b>Ingestion</b>	Health injuries are not known or expected under normal use. May be harmful if swallowed. (dependent on amounts).

## 12. Ecological information

Ecotoxicity

## Component Information:

Chemical Name	Fresh Water Algae	Acute Fish Toxicity	Daphnia (Water flea)	Effects on micro-organisms	Other
1,2-Propylene glycol	EC50: 96h 19000 mg/L (Pseudokirchneriella subcapitata)	LC50: 96h 40613mg/L (Oncorhynchus mykiss) static	NOEC >20000mg/l Pseudomonas putida	NOEC > 20000mg/l Pseudomonas putida	Saltwater algae Skeletonema costatum EC50: 96h 19100mg/L

Chemical Name	log Kow	BCF
1,2-Propylene glycol	-1.07	

<b>Persistence/Degradability</b>	Readily biodegradable
<b>Mobility</b>	Miscible with water.
<b>PBT and vPvB assessment</b>	No information available.
<b>Other adverse effects</b>	Nothing specific known.

## 13. Disposal considerations

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

<b>Waste Disposal Methods</b>	Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.
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**USP-NF/FCC Propylene Glycol (Excipient/Food Use Only)****14. Transport information****Domestic transport regulations (USA)**

DOT Not regulated

**Domestic transport regulations (Canada)**

TDG Not regulated

**Domestic transport regulations (Mexico)**

MEX Not regulated

**International transport regulations**

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

**15. Regulatory information****International Inventories**

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	ICL	EINECS	ELINCS	AICS
1,2-Propylene glycol	Yes	Yes	No	No	Yes 200-338-0	No	Yes

Chemical Name	ENCS ISHL	CHINA	PICCS	KECL	Taiwan	Turkey	NZIoC
1,2-Propylene glycol	Yes (2)-234	Yes	Yes	Yes KE-29267	Yes	Yes 200-338-0	Yes

**USA****Federal Regulations****Ozone Depleting Substances:**

No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

**CERCLA/SARA 103-302**

Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302.

**SARA 311/312 Hazardous Categorization**

Refer to the OSHA hazard classification(s) provided in section 2 of this SDS.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)**

This product is not known to contain any HAPS.

**State Regulations****California Proposition 65**

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would require a warning under the statute.

**State Right-to-Know**

Component Information.

## USP-NF/FCC Propylene Glycol (Excipient/Food Use Only)

Chemical Name	Weight %	Massachusetts	Minnesota	New Jersey	Pennsylvania
1,2-Propylene glycol	99.5	No	Yes	Yes 3595	Yes

**Canada****(NPRI) Canadian National Pollutant Release Inventory**

## Component Information

Chemical Name	Weight %	NPRI
1,2-Propylene glycol	99.5	Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999

## 16. Other information

**Original Preparation Date:** 01-Mar-2010  
**Revision Date:** 19-Feb-2018  
**Revision Number:** 2  
**Reason for revision:** New product name. This version replaces all previous versions.

**Abbreviations and acronyms**

A1 - Known Human Carcinogen  
 A2 - Suspected Human Carcinogen  
 A3 - Animal Carcinogen  
 A4 - Not classifiable as a human carcinogen  
 ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values  
 CAS - Chemical Abstract Service  
 Ceiling - Ceiling Limit Value: Concentrations that should never be exceeded at any given time (instantaneous)  
 CHINA - Chinese Inventory of Existing Chemical Substances (China)  
 CLP - Classification, Labelling and Packaging, Regulation (EC)1272/2008  
 CSA - Chemical Safety Assessment  
 CSR - Chemical Safety Report  
 Delisted - Substances Delisted from Report on Carcinogens  
 DNEL - Derived No Effect Level  
 DOT - U.S. Department of Transportation  
 DSL - Domestic Substance List (Canada)  
 EC - European Commission

**USP-NF/FCC Propylene Glycol (Excipient/Food Use Only)**

EC No. - European Community number  
 EC50 - Half maximal effective concentration  
 EINECS - European Inventory of Existing Commercial Chemical Substances (EU)  
 ELINCS - European List of Notified Chemical Substances (EU)  
 ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan)  
 EPCRA - Emergency Planning and Community Right-to-Know Act of 1986 (USA)  
 FOSFA - The Federation of Oils, Seeds and Fats Associations  
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
 Group 1 - Carcinogenic to Humans  
 Group 2A - Probably Carcinogenic to Humans  
 Group 2B - Possibly Carcinogenic to Humans  
 Group 3 - Not Classifiable  
 IARC - International Agency for Research on Cancer  
 IATA - International Air Transport Association Dangerous Goods Regulations  
 IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 ICAO - International Civil Aviation Organisation  
 ICL - In Commerce List (Canada)  
 IDLH - Immediately Dangerous to Life or Health  
 IMDG - International Maritime Dangerous Goods Code  
 IMO - International Maritime Organization  
 IUB - International Union of Biochemistry and Molecular Biology  
 KECL - Korean Existing and Evaluated Chemical Substances (Korea)  
 Known - Known Carcinogen  
 LC50 - Lethal concentration that produces fatalities in 50% of a given test population  
 LD50 - Median lethal dose of a given test population  
 Marpol - International Convention for the Prevention of Pollution From Ships  
 MEPC - Marine Environment Protection Committee  
 MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported  
 MEXICO - Mexico Occupational Exposure Limits  
 NDSL - Non Domestic Substances List (Canada)  
 NFPA - National Fire Protection Association  
 NIOSH - National Institute of Occupational Safety and Health  
 NOAEL - No Observed Adverse Effect Level  
 NTP - National Toxicology Program  
 NZIoC - New Zealand Inventory of Chemicals (New Zealand)  
 OECD - Organisation for Economic Co-operation and Development  
 OSHA - Occupational Safety & Health Administration  
 OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits  
 PICCS - Inventory of Chemicals and Chemical Substances (Philippines)  
 PNEC - Predicted No-Effect Concentration  
 Present - Carcinogen or potential carcinogen to be identified under OSHA's Hazard Communication Standard  
 Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen  
 SEN - Sensitizer notation. May reflect risk of dermal and/or inhalation sensitization (consult ACGIH documentation).  
 Skin notation - Potential for cutaneous absorption  
 STEL - Short Term Exposure Limit: Concentrations that should not be exceeded except for short periods of time ( usually 15-minutes)  
 STOT - Specific Target Organ Toxicity  
 STV - Short Term Value (same as STEL)  
 TDG - Transportation of Dangerous Goods (Transport Canada)  
 TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA)  
 TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)  
 Under Consideration - Under Consideration by the National Toxicology Program  
 vPvB - Very Persistent and Very Bioaccumulative  
 WHMIS - Workplace Hazardous Materials Information System

**The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.**

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