

Document Number: Ingredient Supplier | SDS | Propylene Glycol USP Revision 1.1/05.19.2022

Section 1. Product and Company Information

Product: Propylene Glycol USP/EP

Company: Ingredient Supplier

13320 Emmett Rd. Houston, TX 77041

USA

Phone: (832) 795-6898

Product Name: Propylene Glycol USP

SDS# 400041020103

CI#: N/A Synonym: N/A

Recommended Use: We recommend that you use this product in a manner consistent with

the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative. Uses in Coatings, consumer. Use in Cleaning Agents, consumer. Functional Fluids, consumer. Consumer use in agrochemicals. Other Consumer Uses Humectant and solvent for: Foodstuffs. Flavors. Fragrances.

Cosmetics. Pharmaceuticals. Personal care applications. Manufacture of substance, industrial. Distribution of substance, industrial. Formulation

& (re)packing of substances and mixtures, industrial. Use in laboratories, industrial. Use as binders and release agents,

professional. Not for use in cat food.

Prepared By: Ingredient Supplier

13320 Emmett Rd. Houston, TX 77041

USA

Emergency Contact Number CHEMTREC - USA (English)

Local Number (National): +1-800-424-9300

Toll-Free Number: 1-800-424-9300

Section 2. Hazard Identification

Hazard Classification: This material is not hazardous under the criteria of the Federal OSHA



Hazard Communication Standard 29CFR 1910.1200.

Other Hazards: No data available.

Section 3. Composition / Information on Ingredients

Synonyms: Propylene Glycol

Substance/Mixture: This product is a substance.

Components: Component CASRN Concentration

Propylene Glycol 57-55-6 > 99.8%

Section 4. First Aid Measures

General Advice: If potential for exposure exists refer to Section 8 for specific personal

protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin Contact: Wash off with plenty of water.

Eye Contact: Flush eyes thoroughly with 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.

Ingestion: No emergency medical treatment necessary.

Most important symptoms and Aside from the information found under Description of first aid

effects, both acute and delayed: measures (above) and Indication of immediate medical attention and

special treatment needed (below), any additional important symptoms

and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: No specific antidote. Treatment of exposure should be directed at the

control of symptoms and the clinical condition of the patient.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide

fire extinguishers. Foam. Alcohol resistant foams (ATC type) are

preferred. General purpose synthetic foams (including AFFF) or protein

foams may function, but will be less effective.



Unsuitable Extinguishing Media: Do not use direct water stream. May spread fire.

Specific Hazards Arising From The Substance or Mixture

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to

combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to:

Carbon monoxide. Carbon dioxide.

Unusual Fire and 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.

Advice for Firefighters:

Fire Fighting Procedures:

Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize

property damage.

Special Protective Equipment for

Firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6. Accidental Release and Clean-Up Procedures

Personal Precautions, Protective

Equipment and Emergency

Procedures:

Use appropriate safety equipment. For additional information, refer to

Section 8, Exposure Controls and Personal Protection. Keep

unnecessary and unprotected personnel from entering the area. Keep

personnel out of low areas.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or

groundwater. See Section 12, Ecological Information.

Methods and Materials for

Containment and Cleaning Up:

Contain spilled material if possible. Small spills: Any absorbent

material. Collect in suitable and properly labeled open containers. Wash

the spill site with large quantities of water. Large spills: Dike area to



contain spill. Pump into suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

Section 7. Handling and Storage

Precautions for Safe Handling: Product handled hot may require additional ventilation or local exhaust.

Spills of these organic materials on hot fibrous insulations may lead to

lowering of the autoignition temperatures possibly resulting in

spontaneous combustion. See Section 8, EXPOSURE CONTROLS AND

PERSONAL PROTECTION.

Conditions for Safe Storage: Store away from direct sunlight or ultraviolet light. Keep container

tightly closed when not in use. Store in a dry place. Protect from

atmospheric moisture. Store in the following material(s): Stainless steel. Aluminum. Container lined with phenolic or epoxy-phenolic FDA food contact approved coating. 316 stainless steel. Opaque HDPE plastic

container.

No special storage conditions required.

Storage Stability

Shelf Life: Use within 24 Months

Section 8. Exposure Controls / Personal Protection

Control Parameters

Exposure limits are listed below, if they exist.

ComponentRegulationType of ListingValue/NotationPropylene GlycolUS WEELTWA10 mg/m3

Exposure Controls

Engineering Controls: Use local exhaust ventilation, or other engineering controls to maintain

airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust

ventilation may be necessary for some operations.

Individual Protection Measures

Eye/Face Protection: Use safety glasses (with side shields). If there is a potential for exposure to

particles which could cause eye discomfort, wear chemical goggles.



Skin Protection

Hand Protection: Chemical protective gloves should not be needed when handling this

material. Consistent with general hygienic practice for any material, skin

contact should be minimized.

Other Protection: No precautions other than clean body-covering clothing should be needed.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed

the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In misty atmospheres, 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

Appearance

Physical State: Liquid
Color: Colorless
Odor: Odorless

Odor Threshold: No test data available.

pH: Not applicable

Melting Point/Range: $< -20 \,^{\circ}\text{C} (< -4 \,^{\circ}\text{F}) \text{ EC METHOD A1}$ Freezing Point: $< -20 \,^{\circ}\text{C} (< -4 \,^{\circ}\text{F}) \text{ EC METHOD A1}$

Boiling Point (760 mmHg): 184 °C (363 °F) at 752.46 mmHg EC Method A2

Flash Point: closed cup 104 °C (219 °F) at 1,000.1 hPa EC Method A9 (PMCC)

Evaporation Rate (Butyl Acetate = 1): 0.01 Estimated.

Flammability (solid, gas): Not applicable to liquids.

Lower Explosion Limit / Lower 2.6 % vol Estimated.

Flammability Limit:

Upper Explosion Limit / Upper 12.5 % vol Estimated.

Flammability Limit:

Vapor Pressure: 20 Pa at 25 °C (77 °F) EC Method A4

Relative Vapor Density (air = 1): 2.62 Literature

Relative Density (water = 1): 1.03 at 20 °C (68 °F) / 20 °C EC Method A3 Water Solubility: 1.00 % at 20 °C (68 °F) EC Method A6

Partition Coefficient: N-Octanol/Water: log Pow: -1.07 Measured



Auto-Ignition Temperature: > 400 °C (> 752 °F) at 100.01 kPa EC Method A15

Decomposition Temperature: No test data available.

Dynamic Viscosity: 43.4 mPa.s at 25 °C (77 °F) Literature

Kinematic Viscosity: No test data available.

Explosive Properties: Not explosive.

Oxidizing Properties: No..

Liquid Density: 1.03 g/cm3 at 20 °C (68 °F) Literature

Molecular Weight:No data available.Percent Volatility:No data available.

Pour Point: < -57 °C (< -71 °F) Literature

NOTE: The physical data presented above are typical values and should not be construed as a specification.

Section 10. Stability and Reactivity Data

Reactivity: No data available.

Chemical Stability: Stable under recommended storage conditions. See Storage,

Section 7. Hygroscopic

Possibility of Hazardous Reactions: Polymerization will not occur.

Conditions to Avoid:No data available.

Incompatible Materials: Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products: Decomposition products depend upon temperature, air supply and

the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Alcohols. Ethers.

Organic acids.

Section 11. Toxicological Information

Toxicological information appears in this section when such data is available.

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 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.

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.

Skin Irritation/Corrosion: Prolonged contact is essentially nonirritating to skin. Repeated

contact may cause flaking and softening of skin.

Serious Eye Damage/Eye Irritation: May cause slight temporary eye irritation. Corneal injury is unlikely.

Mist may cause eye irritation.

Sensitization: Did not cause allergic skin reactions when tested in humans. For

respiratory sensitization: No relevant data found.

Teratogenicity Did not cause birth defects or any other fetal effects in laboratory

animals.

Carcinogenicity: Did not cause cancer in laboratory animals.

Reproductive Toxicity In animal studies, did not interfere with reproduction. In animal

studies, did not interfere with fertility.

STOT - Single Exposure: Evaluation of available data suggests that this material is not an

STOT-SE toxicant.

STOT - Repeated Exposure: In rare cases, repeated excessive exposure to propylene glycol may

cause central nervous system effects.

Mutagenicity: In vitro genetic toxicity studies were negative. Animal genetic

toxicity studies were negative.

Aspiration Hazard: Based on physical properties, not likely to be an aspiration hazard.

Section 12. Ecological Information

Ecotoxicological information appears in this section when such data is available.

Toxicity

Acute Toxicity to Fish: Material is practically non-toxic to aquatic organisms on an acute

basis (LC50/EC50/EL50/LL50 > 100 mg/L in the most sensitive species tested). LC50, Oncorhynchus mykiss (rainbow trout), static

LC50, Ceriodaphnia dubia (water flea), static test, 48 Hour, 18,340

test, 96 Hour, 40,613 mg/l, OECD Test Guideline 203

Acute Toxicity to Aquatic

Invertebrates mg/l, OECD Test Guideline 202

Acute Toxicity to Algae/Aquatic

tic ErC50, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate inhibition, 19,000 mg/l, OECD Test Guideline 201

Toxicity to BacteriaNOEC, Pseudomonas putida, 18 Hour, > 20,000 mg/l, Method Not

Specified.

Chronic Aquatic Toxicity

Chronic Toxicity to Aquatic NOEC, Ceriodaphnia dubia (water flea), semi-static test, 7 d,

Plants:



Invertebrates number of offspring, 13,020 mg/l

Persistence and Degradability

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready

biodegradability. Biodegradation may occur under anaerobic

conditions (in the absence of oxygen).

10-day Window:PassBiodegradation:81%Exposure Time:28 d

Method: OECD Test Guideline 301F or Equivalent

10-day Window: Not applicable

Biodegradation: 96% **Exposure Time:** 64 d

Method: OECD Test Guideline 306 or Equivalent

Theoretical Oxygen Demand: 1.68 mg/mg **Chemical Oxygen Demand (COD):** 1.53 mg/mg

Biological Oxygen Demand (BOD)

Incubation Time	BOD
5 d	69.000%
10 d	70.000%
20 d	86.000%

Photodegradation Atmospheric 10 Hour

Half-Life:

Method: Estimated

Bioaccumulative Potential

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition Coefficient: No data available

Bioaccumulative Potential

Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition Coefficient: -1.07

n-octanol/water(log Pow):

Measured Bioconcentration factor 0.09 Estimated

(BCF):

Mobility in Soil

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.



Potential for mobility in soil is very high (Koc between 0 and 50). **Partition coefficient (Koc):** < 1 Estimated.

Section 13. Disposal Consideration

Disposal Methods

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information, FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Incinerator or other thermal destruction device. As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums.

Section 14. Transportation Information

DOT Not regulated for transport

Classification for SEA transport

(IMO-IMDG):

Not regulated for transport

Transport in bulk according to Annex I or Consult IMO regulations before transporting ocean bulk II of MARPOL 73/78 and the IBC or IGC

Code

Classification for AIR transport Not regulated for transport

(IATA/ICAO):

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained



through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15. Regulatory Information

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103 To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania Worker and Community Right-To-Know Act:

The following chemicals are listed because of the additional requirements of Pennsylvania law:

ComponentsCASRNPropylene Glycol57-55-6

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

United States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Section 16. Other Information

Product Literature

Additional information on this and other products may be obtained by visiting our web page.



Hazard Rating System

NFPA

Health	Fire	Reactivity
1	1	0

Revision

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

TWA	8-hr Time Weighted Average
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

Date of Issue: 12/08/2019
Reason of Issue: Revision

Prepared by: Ingredient Supplier

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Houston, Texas 77041

United States

This 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 other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no



responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitableness and completeness of such information for his own particular use.

For INGREDIENT SUPPLIER

(AUTHORIZED SIGNATORY)

Chris Hill