

Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Allied Propylene Glycol USP

Version number: GHS 3.0
Replaces version of: 2019-09-13 (2)

Revision: 2022-06-01

SECTION 1: Identification

1.1 Product identifier

Identification of the substance	Propylene Glycol USP
CAS number	57-55-6
Product code(s)	900PG0162

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Industrial use
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1.3 Details of the supplier of the safety data sheet

Allied Oil & Supply Inc
2209 S 24th Street
Omaha, NE 68108
United States

Telephone: +1 (402)-344-4343
Website: <https://www.alliedoil.com>

1.4 Emergency telephone number

Emergency information service	CHEMTREC (800) 424-9300 (AVAILABLE 24 HOURS A DAY)
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SECTION 2: Hazard(s) identification

1. Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This substance does not meet the criteria for classification.

2. Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word **Not required**

- Pictograms not required

-Additional statements

0 % of the mixture consists of ingredient(s) of unknown toxicity (acute oral toxicity). 0 % of the mixture consists of Ingredient(s) of unknown toxicity (acute dermal toxicity). 0 % of the mixture consists of ingredient(s) of unknown toxicity (acute inhalative toxicity).

2.3 Other hazards

There is no additional information.

Hazards not otherwise classified

May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Name of substance	Propane-1,2-diol
Identifiers	
CAS No	57-55-6
Purity	99.5 %
Molecular formula	C3H8O2
Molar mass	76.1 g/mol

SECTION 4: First-aid measures**1. Description of first-aid measures**

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

2. Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

3. Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures**1. Extinguishing media**

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

2. Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures**1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

2. Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

3. Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage**1. Precautions for safe handling**

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedings.

2. Conditions for safe storage, including any incompatibilities

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks or other ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

This information is not available.

Environment values

Relevant PNECs and other threshold levels				
PNEC	260 mg/l	aquatic organisms	freshwater	short-term (single instance)
PNEC	20 µg/l	aquatic organisms	marine water	short-term (single instance)
PNEC	20,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PNEC	572 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	57.2 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
PNEC	50 mg/kg	terrestrial organisms	soil	short-term (single instance)

2. Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties
Appearance

Physical state	liquid
Color	colorless - clear
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	<-20 °c at 101.3 Pa
Initial boiling point and boiling range	188.2 °(
Flash point	ggoc
Evaporation rate	0.01 (n-butyl acetate = 1)
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

- Lower explosion limit (LEL)	2.6vol/o
- Upper explosion limit (UEL)	12.6 vol%
Vapor pressure	0.15 mmHg at 20 °C
Density	8.62 lb/gal
Vapor density	this information is not available
Relative density	1.034 (water = 1)

Solubility(ies)

- Water solubility	miscible in any proportion
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Partition coefficient

-n-octanol/water (log KOW)	<u>1.01</u>
Auto-ignition temperature	<u>1371</u>

Viscosity

- Kinematic viscosity	42.05 mm ² /s
- Dynamic viscosity	43.43 cP
Explosive properties	none
Oxidizing properties	none

9.2 Other information there is no additional information

SECTION 10: Stability and reactivity

1. Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

2. Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

3. Possibility of hazardous reactions

No known hazardous reactions.

4. Conditions to avoid

There are no specific conditions known which have to be avoided.

5. Incompatible materials

Oxidizers

6. Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This substance does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity- single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

1. Toxicity

Shall not be classified as hazardous to the aquatic environment.

Biodegradation

The substance is readily biodegradable.

2. Persistence and degradability

Process of degradability		
Process	Degradation	Time
oxygen depletion	106.8%	28 d
carbon dioxide generation	81.7%	28 d
DOC removal	98.3%	28 d

12.3 Bioaccumulative potential

Data are not available.

l n-octanol/water (log KOW) 1-1.07

4. Mobility in soil

Data are not available.

5. Results of PBT and vPvB assessment

Data are not available.

6. Endocrine disrupting properties

Not listed.

7. Other adverse effects

Data are not available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

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|--------------------------------------|--------------------------------------|
| 1. UN/NA Number | not subject to transport regulations |
| 2. UN proper shipping name | not relevant |
| 3. Transport hazard class(es) | not assigned |
| 4. Packing group | not assigned |
| 5. Environmental hazards | not assigned |

SECTION 15: Regulatory information**1. Safety, health and environmental regulations specific for the product In question****Relevant provisions of the European Union (EU)****Restrictions according to REACH, Annex XVII**

not listed

List of substances subject to authorization (REACH, Annex XIV)/ SVHC - candidate list

not listed

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation on persistent organic pollutants (POP)

Not listed.

Persistent organic pollutants (POP)

Not listed.

National regulations (United States)

Toxic Substance Control Act (TSCA) substance is listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

-The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302,304)

not listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

not listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities {CERCLA section 102a) (40 CFR 302.4)
not listed

Right to Know Hazardous Substance List

- Toxic or Hazardous Substance List (MA-TURA)
not listed not listed
- Hazardous Substances List {MN-ERTK)
listed in
- Hazardous Substance List (NJ-RTK)
listed in
- Hazardous Substance List (Chapter 323) {PA-RTK)
listed in
- Hazardous Substance List (RI-RTK)
listed in

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

not listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Chronic	I	none
Health	0	no significant risk to health
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under normal conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability		material that must be preheated before ignition can occur
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZ!oC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

Legend

- AIIC Australian Inventory of Industrial Chemicals
- CICR Chemical Inventory and Control Regulation
- CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)
- DSL Domestic Substances List (DSL)
- ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
- IECSC Inventory of Existing Chemical Substances Produced or Imported in China
- INSQ National Inventory of Chemical Substances
- KECI Korea Existing Chemicals Inventory
- NZ!oC New Zealand Inventory of Chemicals
- PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- REACH Reg. REACH registered substances
- TCSI Taiwan Chemical Substance Inventory
- TSCA Toxic substance Control Act

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

New 11/23/2015; Format Update and Reviewed 09/13/2019; Updated Format 06/01/2022.

Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.
- Transport of dangerous goods by road or rail (49 CFR US DOT).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.