

MATERIAL SAFETY DATA SHEET

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DATE PREPARED: August/27/2001
DATE REVISED : June/01/2008

PRODUCT NAME

PG(P)

MSDS No. : US-14214

1. CHEMICAL PRODUCTS AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER : ADEKA PG(P)

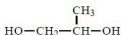
GENERAL USE : In the pharmaceutical field as medicine, in the food industry as a food preserve and in the cosmetic industry as hydraulic fluids etc.

FORMULA : Propylene glycol

MANUFACTURER :

CHEMICAL NAME & STRUCTURE:

Propylene glycol



EMERGENCY TELEPHONE NUMBERS :

DISTRIBUTOR :

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>%</u>	<u>CAS No.</u>	<u>NOTE</u>
Propylene glycol	>99	57-55-6	None

<u>OSHA HAZARDS</u>	<u>EXPOSURE GUIDELINE</u>					
	<u>OSHA</u>		<u>ACGIH TLV</u>			
	<u>PEL</u>		<u>TWA</u>		<u>STEL</u>	
Not applicable	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³

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3. HAZARDS IDENTIFICATION

*****	EMERGENCY OVERVIEW	*****
*		*
*	Colorless liquid.	*
*	May cause eye, skin irritation.	*
*		*
*		*
*		*
*		*
*****		*****

POTENTIAL HEALTH EFFECTS

SKIN CONTACT : Prolonged exposure may cause skin irritation.

EYE CONTACT : May cause irritation.

INHALATION : No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of inhalation exposure.

INGESTION : Single dose oral toxicity is maybe low.

CHRONIC EFFECTS : No data exist regard potential chronic health hazards.

4. FIRST AID MEASURES

SKIN CONTACT : Remove contaminated clothing immediately. Wash skin with soap and water. If irritation occurs, get medical attention.

EYE CONTACT : Immediately flush with large quantities of clean water for at least 15 minutes and call a physician.

INHALATION : Move affected person to fresh air. In case of respiratory system or mucous membranes, or if you feel unwell or in case of prolonged exposure, get medical attention.

INGESTION : Consult a physician for first aid. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN : None

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5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES :

Flash point and Method °F (°C) : 225 °F (107°C)

Flammable Limits (% by volume) : LFL 2.6 UFL 12.5

Autoignition Temperature °F (°C) : 790 °F (421°C)

EXTINGUISHING MEDIA : Dry chemical powder, carbon dioxide, water spray and foam.

SPECIAL FIRE-FIGHTING PROCEDURES :

Abundant water spray can be used to dilute spills and render them incombustible to extinguish fires and to cool closed containers exposed to fire.

FIRE-FIGHTING INSTRUCTIONS :

Water can be used to cool fire-exposed containers, to protect personnel and to disperse vapors and spills.

HAZARDOUS DECOMPOSITION PRODUCTS :

Carbon dioxide, some carbon monoxide, smoke and fumes.

TO FIREMEN : Firemen should wear normal protective equipment(full bunker gear)and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

LARGE SPILL: Prevent the spilt liquid from spreading by the use of sand or earth. Transfer the liquid to a salvage tank if possible.

Incinerate or place in a suitable container for disposal by a licensed contractor.

(Follow all Federal, State and local regulations in your country.)

SMALL SPILL: Sweep up or vacuum and place into sealable container for disposal with wearing protective equipment. (See section 8.)

7. HANDLING AND STORAGE

HANDLING : Remove all sources of ignition. Utilize recommended protective equipment. Use with adequate ventilation. Wash thoroughly after handling. Do not allow to reach waterways.

STORAGE : Keep away from heat, sparks, and open flame. Keep container closed and store in a cool area.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS : Utilize a close system process where feasible.

PERSONAL PROTECTIVE EQUIPMENT :

RESPIRATORY PROTECTION : If vapors, mists, or aerosols are generated, wear a approved respirator.

EYE PROTECTION : Safety glasses. Contact lenses should not be worn.

SKIN PROTECTION : Chemical gloves.

BODY PROTECTION : To prevent skin contact wear skin protection, such as gloves, workpants, long sleeve work-shirt, or disposable coveralls.

SPECIAL PROTECTION INFORMATION :

Eye wash stations and safety showers should be readily available in areas where the substance is used or handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear liquid

ODOR : Mild odor

BOILING POINT °F (°C) : 370 °F (188°C)

MELTING POINT / FREEZING POINT °F (°C) : about -80 (-62)

VAPOR PRESSURE : 29.3Pa at 77 °F (25°C), 22.7 k Pa at 284°F (140°C)

SOLUBILITY IN WATER : Complete

SPECIFIC GRAVITY : 1.038 at 68 °F (20°C)

pH : 6.7 (iso-propanol method at 77 °F (25°C))

VISCOSITY : 43mPa·s at 77 °F (25°C)

VAPOR DENSITY (air=1) : 2.62(air=1.0)

EVAPORATION RATE : No data available
(n-Butylacetate=1)

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY : Stable under normal conditions.

SUBSTANCES TO AVOID CONTAMINATION : High temperature and moisture.
Strong oxidizing agents or high pressure gasses.
Strong alkalies, strong acid, hazardous lights.

HAZARDOUS REACTION AND FIRE DANGER
: No risk of specific hazardous reactions or fire under normal conditions.

PRODUCTS CAUSING HAZARDOUS DECOMPOSITION
: Thermal decomposition or combustion may produce Aldehydes, Carbon monoxide or Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

EYE EFFECT : No data available , but may cause eye irritation.
SKIN EFFECTS : No data available , but prolonged exposure may cause skin irritation.
ACUTE ORAL EFFECTS : LD₅₀: 20 g/kg (rat) ¹⁾
ACUTE INHALATION EFFECTS : No data available.
CHRONIC EFFECTS/CARCINOGENICITY
: This product is not known to be carcinogenic.
MUTAGENICITY : This product is not known to be mutagenicity.
OTHERS : No relevant information found.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION : No data are available on the adverse effects of this material on the environment.

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13. DISPOSAL CONSIDERATION

DISPOSAL INFORMATION : Should be in accordance with local, state or national legislation.

14. TRANSPORTATION INFORMATION

UN No. : Not applicable.

IMDG CODE : Not applicable.

MARINE POLLUTANT : Not applicable.

15. REGULATORY INFORMATION

U.S.FEDERAL REGULATION

TSCA: TSCA INVENTORY ☒ registered ☐ not registered

SARA TITLE III	COMPONENT	CAS No.	WT%
SECTION 313 TOXIC CHEMICALS :	None		

INTERNATIONAL INFORMATION

CEPA : DSL ☒ registered ☐ not registered

REACH(EU): If you require information, please contact us.

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16. OTHER INFORMATION

RATING

HMS :

HEALTH : 0
FLAMMABILITY : 1
REACTIVITY : 0
PERSONAL PROTECTIVE
EQUIPMENT : B

NFPA :

HEALTH HAZARD : 0
FLAMMABILITY : 1
REACTIVITY : 0
SPECIFIC HAZARD : None

REFERENCE : 1) Our testing data

OTHERS

DATE REVISED : MAY/10/2006

OTHERS :

To the best of our knowledge, the information contained herein is accurate. However, neither ADEKA CORPORATION nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

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