

SAFETY DATA SHEET

1. Identification

GHS product identifier	Kosher CP Glycerine
MSDS Number	GLYC329
Version #	03
Issue date	02-04-2011
CAS #	56-81-5
Product use	Emulsifier, emollient, plasticizer, humectant, anti-freeze, in surface coatings and paints, cosmetics. Intermediate for making glycerol derivatives.
Recommended Restrictions	Not available.
Synonym(s)	GLYCEROL
Manufacturer	P&G Chemicals Asia 238-A Thompson Road #21-01/10 Novena Square Tower A Singapore 307684 (65) 6824 5728 (day phone) PGChemMSDS.IM@pg.com CHEMTREC: +1-703-527-3887 Quality or Service Issues: 1-800-477-8899 or +1-513-626-6882

2. Hazards identification

GHS classification

Physical hazards

Explosives	Classification not possible
Flammable gases	Not applicable
Flammable aerosols	Not applicable
Oxidizing gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not classified
Flammable solids	Not applicable
Self-reactive substances and mixtures	Classification not possible
Pyrophoric liquids	Classification not possible
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases	Classification not possible
Oxidizing liquids	Classification not possible
Oxidizing solids	Not applicable
Organic peroxides	Classification not possible
Corrosive to metals	Classification not possible

Health hazards

Acute toxicity, oral	Not classified
Acute toxicity, dermal	Classification not possible
Acute toxicity, inhalation	Not applicable
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Not classified
Sensitization, respiratory	Classification not possible
Sensitization, skin	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible

Environmental hazards	Specific target organ toxicity, single exposure	Classification not possible
	Specific target organ toxicity, repeated exposure	Classification not possible
	Aspiration hazard	Classification not possible
	Hazardous to the aquatic environment, acute hazard	Classification not possible
	Hazardous to the aquatic environment, long-term hazard	Classification not possible
	Hazardous to the ozone layer	Not classified

Precautionary statement

Storage Store in accordance with local/regional/national/international regulation.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Specific hazards No hazards resulting from the material as supplied.

3. Composition/information on ingredients

Non-hazardous components	CAS #	Percent
1,2,3-PROPANETRIOL	56-81-5	99-100

4. First aid measures

First aid procedures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention, if needed.

Skin Remove contaminated clothing. Wash off with soap and plenty of water. Get medical attention if irritation develops or persists. If skin irritation occurs: Get medical advice/attention.

Eye Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Notes to physician Not applicable.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before re-use.

5. Fire-fighting measures

Suitable extinguishing media Water. Water spray. Foam. Dry powder. Carbon dioxide (CO2).

Specific hazards arising from the chemical Not available.

Protective equipment and precautions for firefighters In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods for containment Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift.

Methods for cleaning up Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.

Never return spills in original containers for re-use.

7. Handling and storage

Handling Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact with skin. Avoid contact with eyes. Wash hands thoroughly after handling. Use care in handling/storage.

Storage Keep container tightly closed. Keep out of the reach of children. Use care in handling/storage.

8. Exposure controls / personal protection

Personal protective equipment

Hand protection Wear protective gloves.

Engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

General Eye wash fountain is recommended.

Eye/face protection Wear eye/face protection. Wear chemical protective equipment that is specifically recommended by the manufacturer.

Skin protection Wear suitable protective clothing. Wear protective gloves. No special protective equipment required.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

9. Physical and chemical properties

Appearance

Clear.

Physical state	Liquid.
Color	Water white.
Form	Liquid.
Odor	Bland
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	68 °F (20 °C)
Boiling point	554 °F (290 °C)
Flash point	320 °F (160 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability (Train fire)	Not available.
Flammability limits in air, lower, % by volume	Not available.
Flammability limits in air, upper, % by volume	Not available.
Vapor pressure	0.0025 mm Hg 2.1e-005 kPa
Vapor density	3.17
Relative density	Not available.
Solubility (H2O)	100 %
Octanol/H2O coeff	-1.76
Auto-ignition temperature	739 °F (392.8 °C)
Decomposition temperature	Not available.
Viscosity	1410 mPa·s
Specific gravity	1.2613

10. Stability and reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates).

Materials to avoid Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates).

Hazardous decomposition products Irritants. Toxic gas.

11. Toxicological information

Toxicological data

Product

1,2,3-PROPANETRIOL (56-81-5)

Test Results

Acute Oral LD50 Rat: >= 2 g/kg

Routes of exposure	Skin contact. Eye contact.
Skin corrosion/irritation	Causes irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Other information	Not available.

12. Ecological information

Ecotoxicological data

Product	Test Results
1,2,3-PROPANETRIOL (56-81-5)	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 51000 - 57000 mg/l 96.00 hours

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence / degradability	Even though this product is readily biodegradable, it must not be indiscriminately discarded into the environment.
Bioaccumulation	Not established.
Mobility	Not established.
Other adverse effects	Not established.

13. Disposal considerations

Disposal methods	Dispose of contents/container in accordance with local/regional/national/international regulations.
-------------------------	---

14. Transport information

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. Regulatory information

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Switzerland	Switzerland FOPH	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

Disclaimer

The submission of the MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied are for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific product designated herein, and does not relate to use in combination with any other material of any other process. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the controlled product.

Revision date

02-04-2011

SDS sections updated

Product and Company Identification: Product and Company Identification
Hazards identification: Response
Hazards identification: Prevention