

MSDS - Material Safety Data Sheet

Product Name: Propylene Glycol 100%

MSDS No.: 016906

Part Numbers Covered:

016906
016907

1. Basic Information:

Manufacturer: William H. Harvey Company
Address: 4334 South 67th Street
City, ST Zip: Omaha, NE 68117-1019
Emergency Contact: CHEMTREC
Emergency Telephone Number: (800)424-9300
Contact: Information Telephone Number
Information Telephone Number: (800)228-9681



Last Update: 10/27/2006 **Expiration Date:**
Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture

0	Health
1	Flammability
0	Reactivity
X	Pers. Protection

2. Ingredients:

Trade Secret

CAS No.	Chemical Name	% Range	EHS	IARC	SARA	OSHA	ACGIH	Other
			NTP	SUB Z	313	PEL	TLV	Limits
57-55-6	Propylene Glycol	100.0				NE	NE	NI
THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS IN ACCORDANCE WITH OSHA 1910.1200.								

3. Hazardous Identification:

Hazard Category:

Acute
 Chronic
 Fire
 Pressure
 Reactive

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Hazardous Identification Information:

PHYSICAL HAZARDS:

Aqueous solutions may produce flammable vapors.
Slightly combustible liquid.

ACUTE HEALTH EFFECTS (Short Term):

Eyes: May cause minimal irritation, experienced as temporary discomfort.

Skin: Brief contact is not irritating. Prolonged contact, as with clothing wetted with material, may cause defatting of skin or irritation, seen as local redness with possible mild discomfort.

Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact.

Inhalation: Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Ingestion: If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur. Aspiration may occur during swallowing or vomiting resulting in lung damage.

CHRONIC HEALTH EFFECTS:

No chronic health effects are expected from anticipated conditions of normal use of this material unless aerosol is generated.

4. First Aid Measures:

Route(s) of Entry:

Eye Contact, Skin Contact, Inhalation, Ingestion.

Health Hazards (Acute and Chronic):

Not expected to present an acute health hazard upon short term exposure.

No chronic health effects are expected from anticipated conditions of normal use of this material unless aerosol is generated.

Signs and Symptoms:

INHALATION:

Not a primary route. No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of inhalation exposure.

EYE CONTACT:

Primary route. May cause minor eye irritation.

SKIN ABSORPTION:

Not a primary route. No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin absorption exposure.

SKIN IRRITATION:

Not a primary route. No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin exposure.

INGESTION:

Not a primary route. No significant signs or symptoms indicative of any health hazard are expected to occur as a result of ingestion.

Medical Conditions Generally Aggravated by Exposure:

This material or its emissions may aggravate pre-existing eye disease.

Emergency and First Aid Procedures:

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EMERGENCY FIRST AID
Call toll free: 1-800-740-5015

Eyes:

Flush eyes with plenty of water for several minutes. Get medical attention if eye Irritation persists.

Skin:

Wash skin with plenty of soap and water for several minutes. Get medical attention If skin irritation develops or persists.

Ingestion:

If person is conscious and can swallow, give two glasses of water (16 oz.) but do not Induce vomiting. If vomiting occurs, give fluids again. Have medical personnel determine if evacuation of stomach or induction of vomiting Is necessary. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation:

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory Irritation persists.

Other Instructions:

Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.

Other Health Warnings:

NI

5. Fire Fighting Measures:

Flash Point: ~ 212° F

Lower Explosive Limit: ~ 2.6

Upper Explosive Limit: ~ 12.5

F.P. Method: CC

Fire Extinguishing Media: Carbon dioxide, dry chemical, alcohol type foam, water spray, water fog.

Special Fire Fighting Procedures:

Prevent human exposure to fire, fumes, smoke, and products of combustion. Evacuate nonessential personnel. Liquid may form slippery film. Firefighters should wear full face, self contained breathing apparatus and impervious protective clothing. Water or foam may cause frothing. Use water to cool containers exposed to fire.

Notify authorities if liquid enters sewers or public waters.

Unusual Fire and Explosion:

None known.

6. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Prevent flow to sewers and public waters as it may contaminate said water. Restrict water usage to prevent slip/fall hazard. Soak up smal spill with inert solids. Dike and recover large land spills. Use suitable disposal containers. On water, material is soluble and may float or sink. May biodegrade. Contain/collect rapidly to minimize dispersion. Notify appropriate authorities if product enters any waterway.

7. Handling and Storage:

Precautions to be Taken:

Wear protective equipment when handling. Use only with adequate ventilation. Do not get in eyes. Do not breathe vapor or mist. Do not swallow.

Keep container closed when not in use. Store in a cool dry place. Store in accordance with nfpa requirements. Keep out of reach of children

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Other Precautions:

Do not reuse product containers and dispose of in accordance with all federal, state and local regulation. Since emptied container contains product residues (vapor or liquid), all labeled hazard precautions must be observed.

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

Adequate ventilation is required to minimize exposure or to maintain exposure levels below OSHA/ACGIH requirements.

Personal Protective Equipment:

Eyes: Chemical goggles, always wear eye protection when working with chemicals. Do not wear contact lenses when working with chemicals

Skin: Clean body covering clothing, impervious gloves

Inhalation: If exposure limits are exceeded, or if exposure may occur, use a NIOSH/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSH publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSH/MSHA approved positive pressure breathing apparatus should be readily available.

9. Physical and Chemical Properties:

Boiling Point: ~ 369° F

Melting Point: <-60° F

Evaporation Rate (Butyl Acetate = 1): NDA

Vapor Pressure (mm Hg.): ~.22 @ 68°F

Specific Gravity (H2O = 1): 1.03810

Vapor Density (AIR = 1): ~2.6

Solubility In Water: Complete

Appearance and Odor: Clear Mobile Liquid / Mild, Almost Odorless

Other Information: pH: ~ 6.0

10. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Strong alkalis, strong oxidizing agents.

Conditions To Avoid: Heat, sparks, open flame.

Decomposition/By Products:

Carbon monoxide, carbon dioxide, miscellaneous organic compounds, some possibly toxic

Hazardous Polymerization:

Not expected to occur.

11. Toxicological Information:

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Oral:

LD50 > 5.00 g/kg (rat) practically non-toxic.

Inhalation:

Believed to be practically non-toxic.

Dermal:

LD50 > 2.00 g/kg (rabbit) practically non-toxic.

IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

Skin:

(Draize) Believed to be < .50/8.0 (rabbit) no appreciable effect.

Eyes:

(Draize) Believed to be < 15.00/110 (rabbit) no appreciable effect.

Sensitization:

Not determined.

12. Ecological Information:

MOVEMENT & PARTITIONING:

Bioconcentration potential is low (BCF less than 100 or Log Pow less than 3). Log octanol water partition coefficient (log Pow) is -0.92. Henry Law Constant (H) is 1.2E-8 atm.m³/mole.

DEGRADATION & TRANSFORMATION:

Biodegradation under aerobic static laboratory conditions is high (BOD20 OR BOD28/ThOD greater than 40%). Biodegradation is expected to be achievable in a secondary wastewater treatment plant. 5-day biochemical oxygen demand (BOD5) is 1.16 p/p. 200-day biochemical oxygen demand (BOD20) is 1.45 p/p. theoretical oxygen demand (THOD) is calculated to be 1.68 p/p. Inhibitory concentration (IC50) in OECD Activated Sludge Respiration Inhibition Test (OECD Test No. 209) is greater than 1 g/L. Degradation is expected in the atmospheric environment within minutes to hours.

ECOTOXICOLOGY:

Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species).

Acute LC50 for fathead minnow (*Pimephales promelas*) is 4,600-54900 mg/L

Acute LC50 for guppy (*Poecilia reticulata*) is greater than 10000 mg/L,

Acute LC50 for water flea *Daphnia magna* is 4850-34400 mg/L

Acute LC50 for rainbow trout (*Oncorhynchus mykiss*) is 44mg/L (about 44000 mg/L)

13. Disposal Considerations:

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable regulation under the Resource Conservation and Recovery Act (RCRA). Dispose of material in accordance with all federal, state and local regulations. Local regulations may be more stringent than federal or state.

14. Transport Information:

This product is not regulated by DOT.

This product is not regulated by IMDG.

This product is not regulated by IATA.

15. Regulatory Information:

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Federal

Toxic Substance Control Act (TSCA)

The following is the Toxic Substances Control Act (TSCA) Chemical Substance Inventory Status of the components of this material listed in Section 2 - Ingredients:

CHEMICAL	CAS NO.	STATUS
Propylene Glycol	57-55-6	Listed - Non Confidential

Superfund Amendments and Reauthorization of 1988 (SARA), Title III

-Section 302/304 Requires emergency planning based on 'Threshold Planning Quantities' (TPQs), and release reporting based on Reportable Quantities (RQs) of 'Extremely Hazardous Substances' (EHS) listed in Appendix A of 40 CFR 355.

There are no components of this material with known CAS numbers which are on the EHS list.

-Section 311 & 312 Based upon available information, this material and/or components are not classified as any of the specific health and/or physical hazards defined by Section 311 & 312.

-Section 313 This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.

OSHA Regulations

'Chemical-specific' U.S. Occupational Safety and Health Administration (OSHA) regulations (1910.1002 to 1910.1050) presented under 29 U.S. Code of Federal Regulations (CFR) 1910 do not apply to this material or its components.

Other EPA Regulations

No additional information available

Department of Transportation (DOT)

Other than the normal shipping instructions and information given in this MSDS, there is no other specific U.S. Department of Transportation (DOT) regulations governing the shipment of this material.

State Regulations:

California Safe Drinking Water and Toxic Enforcement Act of 1988 - 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 be subject to the proposition.

California South Coast Air Quality Management District (SCAQMD) Rule 443.1 (VOC's)

A Volatile Organic Compound (VOC) is any volatile compound of carbon excluding methane, carbon monoxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, 1, 1, 1-trichloroethane, methylene chloride, (FC-23), (CFC-I 13), (CFC- 12), (CFC-II), (CFC-22), (CFC-114), and (CFC-I 15).

By this definition, this is a VOC material.

Massachusetts Right to Know Substances List (MSL) [105 CMR 670.000]

Extraordinarily Hazardous Substances (MSL-EHS) must be identified when present in materials at levels greater than state specified criterion. The criterion is $\geq 0.0001\%$. Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers present in this material, at levels specified in Section 2 - Ingredients, do not require reporting under the statute.

New Jersey Registration

The New Jersey, Registry 3, Registration law does not apply to this material, as none of its components are trade secrets.

Pennsylvania Right to Know Hazardous Substance List

Hazardous Substances (P A-HS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers in this material at a level which could require reporting under the statute are:

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Special Hazardous Substances (P A-SHS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 0.01\%$. Environmental Hazards (pA-BI-I) must be identified when present in material at levels greater than the state specified criterion. The criterion is $\geq 0.01\%$. Components with CAS numbers in this material, at levels specified in Section 2 - Ingredients, do not require reporting under the statute.

Regulatory Advisory :

If you reformulate or further process this material, you should consider re-evaluation of the regulatory status of the components listed in this sheet.

16. Other Information:

ABBREVIATIONS:

~ = Approximately
< = Less Than
> = Greater Than
ACGIH = American Conference of Governmental Industrial Hygienists
AIHA = American Industrial Hygiene Association
C = Degrees Celcius
Deg = Degrees
EPA = Environmental Protection Agency
F = Degrees Farenheit
HMIS = Hazardous Materials Information System
IARC = International Agency for Research on Cancer
NA = Not Applicable
NDA = No Data Available
NE = Not Established
NFPA = National Fire Protection Association
NI = Not Indicated
NIOSH = National Institute of Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration

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