



# Safety Data Sheet

SDS ID NO.: 0348MAR019  
Revision date: 04/01/2014

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product name:** Marathon Petroleum Crude Glycerine  
**Synonym:** 1,2,3-Propanetriol, Glycerin, Glycol Alcohol, Glycerol  
**Chemical Family:** Triol, Aliphatic Alcohol  
**Formula:** Mixture  
**Manufacturer Name**  
Marathon Petroleum Company LP  
539 South Main Street  
Findlay OH 45840

**SDS information:** 419-421-3070  
**Emergency telephone number:** 877-627-5463

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Product Information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Avg.	Other:
Marathon Petroleum Crude Glycerine	MIXTURE	100			

### Component Information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Avg.	Other:
Glycerine	56-81-5	80-90		5 mg/m <sup>3</sup> respirable fraction TWA 10 mg/m <sup>3</sup> total mist TWA	
Water	7732-18-5	12-15			
Sodium Chloride	7647-14-5	5-6.5			
Fatty Acids	68308-53-2	0-1			
Methanol (Methyl Alcohol)	67-56-1	0-0.5	200 ppm TWA 250 ppm STEL  Skin - potential significant contribution to overall exposure by the cutaneous route.	200 ppm TWA	

**Notes:** The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of those exposure limits were vacated in 1992.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

WARNING!

VAPORS, FUMES, OR MISTS MAY CAUSE RESPIRATORY TRACT IRRITATION.

#### POTENTIAL HEALTH EFFECTS FROM OVEREXPOSURE

**Inhalation:**

Excessive inhalation of mist may result in respiratory irritation. Overheating may produce vapors which may cause respiratory irritation, dizziness and nausea.

**Ingestion:**

Ingestion of large amounts may cause gastrointestinal disturbances.

**Skin contact:**

Prolonged and repeated liquid contact can cause defatting and drying of the skin and can lead to irritation and/or dermatitis.

**Eye contact:**

Produces little or no irritation on direct contact with the eye.

#### Carcinogenic Evaluation:

##### Product Information:

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Marathon Petroleum Crude Glycerine MIXTURE	Not Listed	Not Listed	Not Listed	Not Listed

##### Component Information:

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Glycerine 56-81-5	Not Listed	Not Listed	Not Listed	Not Listed
Water 7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Chloride 7647-14-5	Not Listed	Not Listed	Not Listed	Not Listed
Fatty Acids 68308-53-2	Not Listed	Not Listed	Not Listed	Not Listed
Methanol (Methyl Alcohol) 67-56-1	Not Listed	Not Listed	Not Listed	Not Listed

## 4. FIRST AID MEASURES

<b>Eye contact:</b>	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts while flushing. If symptoms occur, call a physician.
<b>Skin contact:</b>	Wash with soap and large amounts of water for at least 15 minutes. Get medical attention if irritation persists.
<b>Ingestion:</b>	If swallowed, do not induce vomiting and do not give liquids. Immediately call a physician.
<b>Inhalation:</b>	If affected, move person to fresh air. If breathing is difficult, administer oxygen and continue to monitor. If not breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician. If symptoms or irritation occur with any exposure, call a physician.
<b>NOTES TO PHYSICIAN:</b>	Contains small amounts of methanol (0.5%). Consult standard literature or contact a poison control center for treatment details.
<b>Medical Conditions Aggravated By Exposure:</b>	Preexisting skin conditions and respiratory disorders may be aggravated by exposure to components of this product.

## 5. FIRE FIGHTING MEASURES

### Suitable extinguishing media:

For small fires, Class B fire extinguishing media such as CO<sub>2</sub>, dry chemical, foam or water spray can be used. For large fires, water spray, fog or foam can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

### Specific hazards:

Spontaneous combustion may occur under high temperature, closed conditions if material is absorbed in various fiber matrices and oxygen is present (e.g. oily rags). Store wiping rags in metal cans with tightly fitting lids.

Cool closed containers exposed to fire with water spray. Hazardous combustion products include carbon monoxide, carbon dioxide, aldehydes, ketones, and other oxidized hydrocarbons.

This product is not a combustible material per the OSHA Hazard Communication Standard, but will ignite and burn at temperatures exceeding the flash point. Vapors are heavier than air and may accumulate in low lying areas. Vapors may accumulate in confined spaces. For additional fire related information, see NFPA 30 or the North American Emergency Response Guide 128.

### Special protective equipment and precautions for firefighters:

Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Keep away from flames, hot surfaces, and other ignition sources. No smoking. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Keep run-off water out of sewers and water sources.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### Flash point:

≥ 390°F (PMCC)

### Autoignition temperature:

> 500°F / 260°C

### Flammable limits in air - lower (%):

No data available.

### Flammable limits in air - upper (%):

No data available.

### NFPA rating:

Health: 1

Flammability: 1

Instability: 1

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Isolate and evacuate area. Shut off source if safe to do so. Advise authorities if the product has entered a water course or sewer.

All contaminated surfaces will be slippery. Use impervious gloves when handling contaminated material. Keep untrained personnel away from contamination.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system or any surface water.

**Methods and materials for containment and cleaning up:** Absorb small spills with absorbent material. Recover large spills into approved containers. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Handling:

Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues.

Avoid repeated and prolonged skin contact. Never siphon this product by mouth. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

### Storage:

Keep in a cool, well-ventilated place. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep away from heat and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

**Engineering measures:** Ensure adequate ventilation, especially in confined areas. Local or general exhaust required when using at elevated temperatures that generate vapors or mists.

**Respiratory protection:** Breathing apparatus needed only when aerosol or mist is formed. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 1910.134. Self-contained breathing apparatus should be used for fire fighting.

**Skin and body protection:** Use chemical resistant gloves such as neoprene, nitrile, or PVA to prevent prolonged or repeated skin contact.

**Eye protection:** Where splashing is possible, wear safety glasses with side shields. Wear goggles and faceshield when handling hot material.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Clear to Amber Liquid
Physical state (Solid/Liquid/Gas):	Liquid
Substance type (Pure/Mixture):	Mixture
Color:	Clear or Amber
Odor:	Mild to Moderate Grainy
Molecular weight:	90-100
pH:	Neutral
Boiling point/range (5-95%):	>550°F 760 mmHG
Melting point/range:	18-20°C
Decomposition temperature:	Not applicable.
Specific gravity:	1.2-1.3 @22/22°C
Density:	No data available.
Bulk density:	No data available.
Vapor density:	3.17 (air=1)
Vapor pressure:	72° F <1 mm
Evaporation rate:	No data available.
Solubility:	Miscible
Solubility in other solvents:	No data available.
Partition coefficient (n-octanol/water):	No data available.
VOC content(%):	No data available.
Viscosity:	No data available.

## 10. STABILITY AND REACTIVITY

Stability:	The material is stable at 70° F, 760 mm pressure.
Polymerization:	Will not occur.
Hazardous decomposition products:	Hazardous combustion products include carbon monoxide, carbon dioxide, aldehydes, ketones, and other oxidized hydrocarbons
Materials to avoid:	Strong oxidizers such as nitrates, chlorates, peroxides. Incompatible with strong acids and bases.
Conditions to avoid:	Excessive heat, sources of ignition and open flames. Water contamination during storage.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:

#### Product Information:

Name	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Marathon Petroleum Crude Glycerine	MIXTURE			

#### Component Information:

Name	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerine	56-81-5	12600mg/kg (Rat)	>21900mg/kg (Rat)	
Water	7732-18-5	>90mL/kg (Rat)		
Sodium Chloride	7647-14-5	3g/kg (Rat)	>10g/kg (Rabbit)	>42g/m <sup>3</sup> (Rat)
Fatty Acids	68308-53-2			
Methanol (Methyl Alcohol)	67-56-1	5628mg/kg (Rat)	15800mg/kg (Rabbit)	64000ppm (Rat) 4-hr. 83.2mg/L (Rat) 4-hr.

#### Toxicology Information:

## 12. ECOTOXICOLOGICAL INFORMATION

### Mobility

#### Mobility in soil

Considered to have high mobility in soil based on glycerine content.

### Ecotoxicity

#### Aquatic Toxicity:

Considered to be practically nontoxic based on glycerine content.

#### Bioaccumulation:

Considered to have low potential for bioconcentration based on glycerine content.

### Persistence/Biodegradation:

#### Bioaccumulative Potential

If released to soil and water, this product is expected to readily biodegrade under aerobic or anaerobic conditions based on glycerine content.

## 13. DISPOSAL CONSIDERATIONS

### Description of waste residues, safe handling, and methods of disposal:

This product as produced is not specifically listed as an EPA RCRA hazardous waste according to federal regulations (40 CFR 260-271). However, if mixed or contaminated with a hazardous waste or other substance(s), the resulting material may meet the criteria of a hazardous waste when discarded. The user is responsible for determining if the material for disposal is hazardous according to federal, state, and local regulations.

Long-term storage may result in decomposition of the product.

### Contaminated packaging disposal:

Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.

## 14. TRANSPORT INFORMATION

49 CFR 172.101:

DOT:

**Transport Information:** This material when transported via US commerce is NOT REGULATED by DOT regulations.

## 15. REGULATORY INFORMATION

### US Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b): This product and/or its components are listed on the TSCA Chemical Inventory.

OSHA Hazard Communication Standard: This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication Standard.

### EPA Superfund Amendment & Reauthorization Act (SARA):

**SARA Section 302:** This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Glycerine	NA
Water	NA
Sodium Chloride	NA
Fatty Acids	NA
Methanol (Methyl Alcohol)	NA

**SARA Section 304:** This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Glycerine	NA
Water	NA
Sodium Chloride	NA
Fatty Acids	NA
Methanol (Methyl Alcohol)	NA

**SARA** Acute Health Hazard

**SARA Section 313:** This product contains the following components, which if in exceedance of the de minimus threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:
Glycerine	None
Water	None
Sodium Chloride	None
Fatty Acids	None



Methanol (Methyl Alcohol)	None
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# **State and Community Right-To-Know Regulations:**

The following component(s) of this material are identified on the regulatory lists below:

## Glycerine

Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Not Listed.
New Jersey Right-To-Know:	SN 3319
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present (mist)
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Toxic (mist); Flammable (mist)
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
Pennsylvania RTK - Special Hazardous Substances:	Not Listed.
New Jersey - Special Hazardous Substances:	Not Listed.
New Jersey - Environmental Hazardous Substances List:	Not Listed.
Illinois - Toxic Air Contaminants	Not Listed.
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed.

## Water

Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Not Listed.
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed.
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
Pennsylvania RTK - Special Hazardous Substances:	Not Listed.
New Jersey - Special Hazardous Substances:	Not Listed.
New Jersey - Environmental Hazardous Substances List:	Not Listed.
Illinois - Toxic Air Contaminants	Not Listed.
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed.

## Sodium Chloride

Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Not Listed.
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed.
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
Pennsylvania RTK - Special Hazardous Substances:	Not Listed.
New Jersey - Special Hazardous Substances:	Not Listed.
New Jersey - Environmental Hazardous Substances List:	Not Listed.
Illinois - Toxic Air Contaminants	Not Listed.

New York - Reporting of Releases Part 597 - Not Listed.  
List of Hazardous Substances:

**Fatty Acids**

Louisiana Right-To-Know: Not Listed.  
California Proposition 65: Not Listed.  
New Jersey Right-To-Know: Not Listed.  
Pennsylvania Right-To-Know: Not Listed.  
Massachusetts Right-To Know: Not Listed.  
Florida Substance List: Not Listed.  
Rhode Island Right-To-Know: Not Listed.  
Michigan Critical Materials Register List: Not Listed.  
Massachusetts Extraordinarily Hazardous Substances: Not Listed.  
California - Regulated Carcinogens: Not Listed.  
Pennsylvania RTK - Special Hazardous Substances: Not Listed.  
New Jersey - Special Hazardous Substances: Not Listed.  
New Jersey - Environmental Hazardous Substances List: Not Listed.  
Illinois - Toxic Air Contaminants Not Listed.  
New York - Reporting of Releases Part 597 - Not Listed.  
List of Hazardous Substances:

**Methanol (Methyl Alcohol)**

Louisiana Right-To-Know: Not Listed.  
California Proposition 65: Not Listed.  
New Jersey Right-To-Know: Not Listed.  
Pennsylvania Right-To-Know: Not Listed.  
Massachusetts Right-To Know: Not Listed.  
Florida Substance List: Not Listed.  
Rhode Island Right-To-Know: Not Listed.  
Michigan Critical Materials Register List: Not Listed.  
Massachusetts Extraordinarily Hazardous Substances: Not Listed.  
California - Regulated Carcinogens: Not Listed.  
Pennsylvania RTK - Special Hazardous Substances: Not Listed.  
New Jersey - Special Hazardous Substances: Not Listed.  
New Jersey - Environmental Hazardous Substances List: Not Listed.  
Illinois - Toxic Air Contaminants Not Listed.  
New York - Reporting of Releases Part 597 - Not Listed.  
List of Hazardous Substances:

**Canadian Regulatory Information:**

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Glycerine	Uncontrolled product according to WHMIS classification criteria	
Water	Uncontrolled product according to WHMIS classification criteria	
Sodium Chloride	Uncontrolled product according to WHMIS classification criteria	

**NOTE:** Not Applicable.

## 16. OTHER INFORMATION

**Additional Information:** Not for food use.

**Prepared by:** Toxicology and Product Safety

The information and recommendations contained herein are based upon tests believed to be reliable. However, Marathon Petroleum Company LP (MPC) does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage may be required. MPC assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

**End of Safety Data Sheet**