

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name** Diethylene Glycol

**Other means of identification**

**Product Code(s)** 0194

**Synonyms** No information available

**Recommended use of the chemical and restrictions on use**

**Recommended Use** For Further Manufacturing Use Only.

**Uses advised against** Not for Human or Animal Drug Use

**Details of the supplier of the safety data sheet**

**Company Address**

VWR International, LLC  
 Radnor Corporate Center  
 100 Matsonford Road  
 Radnor, PA 19087-8660

**Manufacturer Address**

VWR International, LLC  
 28600 Fountain Parkway  
 Solon, Ohio 44139

**Company Phone Number**

1-800-448-4442

**E-mail Address**

info@amresco-inc.com

**Emergency Telephone Number**

**Emergency Telephone Number** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral

Category 4

**Label elements**

**Emergency Overview**

**Warning**

**Hazard statements**

H302 - Harmful if swallowed



**Appearance** Clear Colorless

**Physical State** Viscous liquid

**Odor** Odorless

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not regulated

**Other Information**

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name     | CAS-No   | EC No.    | Weight % | Trade Secret   |
|-------------------|----------|-----------|----------|----------------|
| Diethylene glycol | 111-46-6 | 203-872-2 | 95-100   | Not applicable |

**4. FIRST AID MEASURES****First Aid Measures**

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration.

**Ingestion** Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No information available.

**Specific Hazards Arising from the Chemical**

No information available.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective Equipment and Precautions for Firefighters**

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

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal protection** Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions**

**Environmental Precautions** See Section 12 for additional Ecological information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Hygroscopic.

**Incompatible Products** Strong oxidizing agents. Strong acids. Protect from moisture.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name                 | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|-------------------------------|-----------|----------|------------|
| Diethylene glycol<br>111-46-6 | -         | -        | -          |

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Avoid contact with eyes. Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical State** Viscous liquid

|                   |                 |                       |                          |
|-------------------|-----------------|-----------------------|--------------------------|
| <b>Appearance</b> | Clear Colorless | <b>Odor</b>           | Odorless                 |
| <b>Color</b>      | Colorless       | <b>Odor Threshold</b> | No information available |

| <u>Property</u>                     | <u>Values</u>            | <u>Remarks • Method</u> |
|-------------------------------------|--------------------------|-------------------------|
| <b>pH</b>                           | No information available |                         |
| <b>Melting point/freezing point</b> | No information available |                         |
| <b>Boiling Point/Range</b>          | No information available |                         |
| <b>Flash Point (High in °C)</b>     | 124 °C / 255 °F          | Closed cup              |
| <b>Evaporation Rate</b>             | No information available |                         |
| <b>Flammability (solid, gas)</b>    | No information available |                         |
| <b>Flammability Limit in Air</b>    |                          |                         |
| <b>Upper flammability limit:</b>    | No information available |                         |
| <b>Lower flammability limit:</b>    | No information available |                         |
| <b>Vapor pressure</b>               | No information available |                         |
| <b>Vapor Density</b>                | No information available |                         |
| <b>Specific Gravity</b>             | 1.118                    |                         |
| <b>Water Solubility</b>             | No information available |                         |
| <b>Solubility in other solvents</b> | No information available |                         |
| <b>Partition coefficient</b>        | No information available |                         |
| <b>Autoignition Temperature</b>     | No information available |                         |
| <b>Decomposition Temperature</b>    | No information available |                         |
| <b>Kinematic viscosity</b>          | No information available |                         |
| <b>Dynamic viscosity</b>            | No information available |                         |
| <b>Explosive Properties</b>         | No information available |                         |
| <b>Oxidizing Properties</b>         | No information available |                         |

**Other Information**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening Point</b>  | No information available |
| <b>Molecular Weight</b> | No information available |
| <b>VOC Content</b>      | No information available |
| <b>Density</b>          | No information available |
| <b>Bulk Density</b>     | No information available |

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to Avoid**

Protect from moisture.

**Incompatible Materials**

Strong oxidizing agents. Strong acids. Protect from moisture.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | There is no data available for this product. |
| <b>Eye Contact</b>  | There is no data available for this product. |
| <b>Skin Contact</b> | There is no data available for this product. |

**Ingestion**

Harmful if swallowed.

| Chemical Name                 | LD50 Oral             | LD50 Dermal              | LC50 Inhalation |
|-------------------------------|-----------------------|--------------------------|-----------------|
| Diethylene glycol<br>111-46-6 | = 12565 mg/kg ( Rat ) | = 11890 mg/kg ( Rabbit ) | -               |

**Information on toxicological effects****Symptoms**

No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Sensitization**

No information available.

**Mutagenic Effects**

No information available.

**Carcinogenicity**

No information available.

| Chemical Name                 | ACGIH | IARC | NTP | OSHA |
|-------------------------------|-------|------|-----|------|
| Diethylene glycol<br>111-46-6 | -     | -    | -   | -    |

**Reproductive Toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Target Organ Effects**

Liver, Kidneys.

**Aspiration hazard**

No information available.

**Numerical measures of toxicity - Product Information****Unknown Acute Toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name                 | Algae/aquatic plants | Toxicity to Fish  | Crustacea                              |
|-------------------------------|----------------------|---|--|
| Diethylene glycol<br>111-46-6 | -                    | 75200: 96 h Pimephales promelas<br>mg/L LC50 flow-through | 84000: 48 h Daphnia magna mg/L<br>EC50 |

**Persistence and Degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

| Chemical Name                 | Partition coefficient |
|-------------------------------|-----------------------|
| Diethylene glycol<br>111-46-6 | -1.98                 |

**Other Adverse Effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Waste Disposal Method**

Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging**

Do not re-use empty containers.

| Chemical Name     | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|-------------------|--------------------------------------|------------------------|------------------------|------------------------|
| Diethylene glycol | -                                    | -                      | -                      | -                      |

|                               |  |  |  |
|-------------------------------|--|--|--|
| 111-46-6                      |  |  |  |
| <b>Chemical Name</b>          |  | <b>California Hazardous Waste Status</b> |  |
| Diethylene glycol<br>111-46-6 |  | -  |  |

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** Not regulated

#### 15. REGULATORY INFORMATION

##### International Inventories

|                      |          |
|----------------------|----------|
| <b>TSCA</b>          | Complies |
| <b>DSL/NDSL</b>      | Complies |
| <b>EINECS/ELINCS</b> | Complies |
| <b>ENCS</b>          | Complies |
| <b>IECSC</b>         | Complies |
| <b>KECL</b>          | Complies |
| <b>PICCS</b>         | Complies |
| <b>AICS</b>          | Complies |

##### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

##### U.S. Federal Regulations

##### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Component                                | SARA 313 - Threshold Values % |
|--|-------------------------------|
| Diethylene glycol<br>111-46-6 ( 95-100 ) | -                             |

##### SARA 311/312 Hazard Categories

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden Release of Pressure Hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

##### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name                 | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Diethylene glycol<br>111-46-6 | -                           | -                      | -                         | -                          |

##### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

| Chemical Name                 | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|-------------------------------|--------------------------|------------------------------------|----|
| Diethylene glycol<br>111-46-6 | -                        | -                                  | -  |

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

| Chemical Name                | California Prop. 65 |
|------------------------------|---------------------|
| Diethylene glycol - 111-46-6 | -                   |

**U.S. State Right-to-Know Regulations**

| Chemical Name                 | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|------------|---------------|--------------|
| Diethylene glycol<br>111-46-6 | -          | -             | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not regulated

**16. OTHER INFORMATION**

Issuing Date 09-Nov-2010

Revision Date 08-Jan-2016

**Revision Note**

No information available

**Disclaimer**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and its Affiliates shall not be held liable for any damage resulting from handling.

**End of Safety Data Sheet**