

**1. Identification****Product identifier** 1,2-Diphenoxyethane**Other means of identification****Item** N-10160**CAS number** 104-66-5**Synonyms** Ethylene glycol diphenyl ether**Recommended use** For Laboratory Use Only**Recommended restrictions** None known.**Manufacturer/Importer/Supplier/Distributor information****Manufacturer**

**Company name** Chem Service, Inc.  
**Address** 660 Tower Lane  
 West Chester, PA 19380  
 United States

**Telephone** Toll Free 800-452-9994  
 Direct 610-692-3026

**Website** www.chemservice.com**E-mail** info@chemservice.com

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 Chemtrec outside US +1 703-527-3887

**2. Hazard(s) identification****Physical hazards** Not classified.**Health hazards** Not classified.**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 2

Hazardous to the aquatic environment, long-term hazard Category 2

**OSHA defined hazards** Not classified.**Label elements****Signal word** None.**Hazard statement** Toxic to aquatic life with long lasting effects.**Precautionary statement****Prevention** Avoid release to the environment.**Response** Collect spillage.**Storage** Store away from incompatible materials.**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.**Hazard(s) not otherwise classified (HNOC)** None known.**Supplemental information** 100% of the mixture consists of component(s) of unknown acute dermal toxicity.**3. Composition/information on ingredients****Substances**

| Chemical name       | Common name and synonyms       | CAS number | %   |
|---------------------|--------------------------------|------------|-----|
| 1,2-Diphenoxyethane | Ethylene glycol diphenyl ether | 104-66-5   | 100 |

## 4. First-aid measures

|  |  |
|--|--|
| Inhalation   | Move to fresh air. Call a physician if symptoms develop or persist.  |
| Skin contact   | Wash off with soap and water. Get medical attention if irritation develops and persists.                         |
| Eye contact  | Rinse with water. Get medical attention if irritation develops and persists.                                     |
| Ingestion  | Rinse mouth. Get medical attention if symptoms occur.  |
| Most important symptoms/effects, acute and delayed                     | Direct contact with eyes may cause temporary irritation.   |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically.   |
| General information  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## 5. Fire-fighting measures

|   |  |
|---|--|
| Suitable extinguishing media                                  | Water fog. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ). Alcohol resistant foam.                           |
| Unsuitable extinguishing media                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| Specific hazards arising from the chemical                    | During fire, gases hazardous to health may be formed.  |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                        |
| Fire fighting equipment/instructions                          | Use water spray to cool unopened containers. Wear self contained breathing apparatus for fire fighting if necessary. |
| Specific methods  | Use standard firefighting procedures and consider the hazards of other involved materials.                           |
| General fire hazards  | No unusual fire or explosion hazards noted.  |

## 6. Accidental release measures

|   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Avoid dust formation. Avoid breathing gas. Avoid breathing mist or vapor. |
| Methods and materials for containment and cleaning up               | This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.   |
| Environmental precautions   | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

|  |   |
|--|---|
| Precautions for safe handling                                | Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. |
| Conditions for safe storage, including any incompatibilities | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep container tightly closed in a dry and well-ventilated place. Store in a dry place.   |

## 8. Exposure controls/personal protection

|   |   |
|---|---|
| Occupational exposure limits  | This substance has no PEL, TLV, or other recommended exposure limit.  |
| Biological limit values   | No biological exposure limits noted for the ingredient(s).  |
| Appropriate engineering controls                                      | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |
| Individual protection measures, such as personal protective equipment |   |
| Eye/face protection   | Wear safety glasses with side shields (or goggles).   |

|                                       |   |
|---------------------------------------|---|
| <b>Skin protection</b>                |   |
| <b>Hand protection</b>                | Wear appropriate chemical resistant gloves.   |
| <b>Other</b>                          | Wear suitable protective clothing.  |
| <b>Respiratory protection</b>         | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. Physical and chemical properties

### Appearance

|  |                                    |
|--|------------------------------------|
| <b>Physical state</b>                          | Solid.                             |
| <b>Form</b>                                    | Crystalline Solid                  |
| <b>Color</b>                                   | White to Light Beige               |
| <b>Odor</b>                                    | Not available.                     |
| <b>Odor threshold</b>                          | Not available.                     |
| <b>pH</b>                                      | Not available.                     |
| <b>Melting point/freezing point</b>            | 201.2 - 204.8 °F (94 - 96 °C) lit. |
| <b>Initial boiling point and boiling range</b> | Not available.                     |
| <b>Flash point</b>                             | Not available.                     |
| <b>Evaporation rate</b>                        | Not available.                     |
| <b>Flammability (solid, gas)</b>               | Not available.                     |

### Upper/lower flammability or explosive limits

|                                       |                |
|---------------------------------------|----------------|
| <b>Flammability limit - lower (%)</b> | Not available. |
| <b>Flammability limit - upper (%)</b> | Not available. |
| <b>Explosive limit - lower (%)</b>    | Not available. |
| <b>Explosive limit - upper (%)</b>    | Not available. |

|                         |                |
|-------------------------|----------------|
| <b>Vapor pressure</b>   | Not available. |
| <b>Vapor density</b>    | Not available. |
| <b>Relative density</b> | Not available. |

### Solubility(ies)

|  |                |
|--|----------------|
| <b>Solubility (water)</b>                      | Not available. |
| <b>Partition coefficient (n-octanol/water)</b> | Not available. |

|                                  |                |
|----------------------------------|----------------|
| <b>Auto-ignition temperature</b> | Not available. |
| <b>Decomposition temperature</b> | Not available. |
| <b>Viscosity</b>                 | Not available. |

### Other information

|                             |  |
|-----------------------------|--|
| <b>Explosive properties</b> | Not explosive.                                 |
| <b>Molecular formula</b>    | C <sub>14</sub> H <sub>14</sub> O <sub>2</sub> |
| <b>Molecular weight</b>     | 214.26 g/mol                                   |
| <b>Oxidizing properties</b> | Not oxidizing.                                 |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |

**Hazardous decomposition products** No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | No adverse effects due to inhalation are expected.       |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected.     |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation. |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.                   |

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

|  |  |
|--|--|
| <b>Acute toxicity</b>                    | Not known.   |
| <b>Skin corrosion/irritation</b>         | Prolonged skin contact may cause temporary irritation.   |
| <b>Serious eye damage/eye irritation</b> | Direct contact with eyes may cause temporary irritation. |

### Respiratory or skin sensitization

|                                  |   |
|----------------------------------|---|
| <b>Respiratory sensitization</b> | Not a respiratory sensitizer.                             |
| <b>Skin sensitization</b>        | This product is not expected to cause skin sensitization. |

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

### Persistence and degradability

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. Transport information****DOT**

|                              |   |
|------------------------------|---|
| UN number                    | UN3077  |
| UN proper shipping name      | Environmentally hazardous substances, solid, n.o.s. (1,2-Diphenoxyethane) |
| Transport hazard class(es)   |   |
| Class                        | 9   |
| Subsidiary risk              | -   |
| Label(s)                     | 9   |
| Packing group                | III   |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling.   |
| Special provisions           | 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33                           |
| Packaging exceptions         | 155   |
| Packaging non bulk           | 213   |
| Packaging bulk               | 240   |

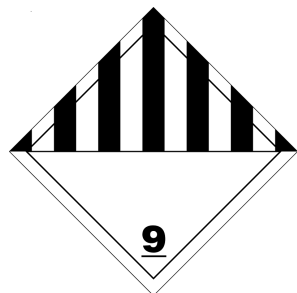
**IATA**

|                              |  |
|------------------------------|--|
| UN number                    | UN3077   |
| UN proper shipping name      | Environmentally hazardous substance, solid, n.o.s. (1,2-Diphenoxyethane) |
| Transport hazard class(es)   |  |
| Class                        | 9  |
| Subsidiary risk              | -  |
| Packing group                | III  |
| Environmental hazards        | No.  |
| ERG Code                     | 9L   |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling.  |
| Other information            |  |
| Passenger and cargo aircraft | Allowed with restrictions.   |
| Cargo aircraft only          | Allowed with restrictions.   |

**IMDG**

|                              |  |
|------------------------------|--|
| UN number                    | UN3077   |
| UN proper shipping name      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,2-Diphenoxyethane) |
| Transport hazard class(es)   |  |
| Class                        | 9  |
| Subsidiary risk              | -  |
| Packing group                | III  |
| Environmental hazards        |  |
| Marine pollutant             | No.  |
| EmS                          | F-A, S-F   |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling.  |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not applicable.

**DOT; IATA; IMDG****General information**

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | No                     |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | 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  | No                     |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | 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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 10-17-2017

**Version #** 01

**NFPA ratings**

Health: 0  
Flammability: 0  
Instability: 0

**Disclaimer**

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

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