

SECTION 1: Identification

1.1. Identification

| | |
|--------------|---|
| Product form | : Mixture |
| Trade name | : Triethylene glycol diacrylate (TriEGDA) |
| CAS-No. | : 1680-21-3 |
| Product code | : 02655 |
| Formula | : C12H18O6 |

1.2. Recommended use and restrictions on use

| | |
|-----------------|--|
| Recommended use | : Use as laboratory reagent, Manufacture of substances |
|-----------------|--|

1.3. Supplier

Supplier

Polysciences
400 Valley Road
Warrington, PA 18976 - United States
T +1 215 343 6484 - F +1 215 343 0214
info@polysciences.com - www.polysciences.com

1.4. Emergency telephone number

| | |
|------------------|---|
| Emergency number | : 24-hour emergency phone number ChemTel 1-800-255-3924 |
|------------------|---|

SECTION 2: Hazard(s) identification


2.1. Classification of the substance or mixture

GHS US classification

| | |
|--|---|
| Acute toxicity (oral) Category 4 | Harmful if swallowed |
| Skin corrosion/irritation Category 1C | Causes severe skin burns and eye damage |
| Serious eye damage/eye irritation Category 2 | Causes serious eye irritation |
| Skin sensitization, Category 1 | May cause an allergic skin reaction |
| Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | May cause respiratory irritation |

2.2. GHS Label elements, including precautionary statements

GHS US labeling

| | |
|-----------------------------------|---|
| Hazard pictograms (GHS US) | :  |
| Signal word (GHS US) | : Danger |
| Hazard statements (GHS US) | : Harmful if swallowed Causes severe skin burns and eye damage May cause an allergic skin reaction Causes serious eye irritation May cause respiratory irritation |
| Precautionary statements (GHS US) | : Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. |

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---|---------------------|----------|---|
| Triethylene glycol diacrylate (TriEGDA) | (CAS-No.) 1680-21-3 | 91 – 100 | Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 |
| 4-Methoxyphenol | (CAS-No.) 150-76-5 | ≤ 5 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 3, H402 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a physician immediately.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction. Burns.
- Symptoms/effects after eye contact : Eye irritation. Serious damage to eyes.
- Symptoms/effects after ingestion : Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material.

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Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at room temperature. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| | |
|--|-------------------------------|
| Triethylene glycol diacrylate (TriEGDA) (1680-21-3) | |
| No additional information available | |
| 4-Methoxyphenol (150-76-5) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | 4-Methoxyphenol |
| ACGIH TWA (mg/m ³) | 5 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: Eye irr; skin dam |
| Regulatory reference | ACGIH 2020 |
| USA - NIOSH - Occupational Exposure Limits | |
| NIOSH REL (TWA) (mg/m ³) | 5 mg/m ³ |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

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| | |
|---|--|
| Appearance | : Clear liquid. |
| Color | : Mixture contains one or more component(s) which have the following colour(s): Colorless |
| Odor | : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: caramel phenolic |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : ≈ 266 °C |
| Flash point | : > 110 °C |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Not applicable. |
| Vapor pressure | : ≈ 0.5 mm Hg |
| Relative vapor density at 20°C | : no data |
| Relative density | : 1.1 |
| Molecular mass | : 258.3 g/mol |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|-------------------------|
| Acute toxicity (oral) | : Harmful if swallowed. |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

4-Methoxyphenol (150-76-5)

| | |
|---------------|------------|
| LD50 oral rat | 1600 mg/kg |
|---------------|------------|

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| 4-Methoxyphenol (150-76-5) | |
|----------------------------|--------------|
| LD50 dermal rabbit | > 2000 mg/kg |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes severe skin burns. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : May cause respiratory irritation. |

| Triethylene glycol diacrylate (TriEGDA) (1680-21-3) | |
|---|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |

| | |
|-------------------------------------|---|
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Symptoms/effects after inhalation | : May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. Burns. |
| Symptoms/effects after eye contact | : Eye irritation. Serious damage to eyes. |
| Symptoms/effects after ingestion | : Burns. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------|--|
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Before neutralisation, the product may represent a danger to aquatic organisms. |
|-------------------|--|

| 4-Methoxyphenol (150-76-5) | |
|----------------------------|---|
| LC50 fish 1 | 84.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 fish 2 | 28.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

| 4-Methoxyphenol (150-76-5) | |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 1.3 |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|-------------------------|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
|-------------------------|---|

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Triethylene glycol diacrylate (TriEGDA) (1680-21-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

4-Methoxyphenol (150-76-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Triethylene glycol diacrylate (TriEGDA) (1680-21-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Triethylene glycol diacrylate (TriEGDA) (1680-21-3)

Listed on the Canadian DSL (Domestic Substances List)

4-Methoxyphenol (150-76-5)

Listed on the Canadian DSL (Domestic Substances List)

Triethylene glycol diacrylate (TriEGDA) (1680-21-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

4-Methoxyphenol (150-76-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

4-Methoxyphenol (150-76-5)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

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| Component | State or local regulations |
|---------------------------|---|
| 4-Methoxyphenol(150-76-5) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

SECTION 16: Other information

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Revision date : 12/04/2020

Hazard Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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