



## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

|              |                                          |
|--------------|------------------------------------------|
| Product name | Ethylene Glycol 30%                      |
| CAS number   | 107-21-1                                 |
| Synonyms     | Monoethylene glycol; 1,2-Ethanediol; MEG |

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                 |                      |
|-----------------|----------------------|
| Identified uses | Laboratory Chemicals |
|-----------------|----------------------|

#### 1.3 Details of the supplier of the safety data sheet

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| Company   | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
| Telephone | 512-668-9918                                                               |
| Fax       | 512-886-4008                                                               |

#### 1.4 Emergency telephone

|                   |                              |          |
|-------------------|------------------------------|----------|
| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|                   | International 1-352-323-3500 | INFOTRAC |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|                                                    |            |
|----------------------------------------------------|------------|
| Acute Toxicity                                     | Category 4 |
| Specific Target Organ Toxicity (single exposure)   | Category 3 |
| Target Organ(s) - Central nervous system (CNS)     |            |
| Specific Target Organ Toxicity (repeated exposure) | Category 2 |

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statements

Harmful if swallowed.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention: Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.  
Response: Get medical attention/advice if you feel unwell.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.  
Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.  
Disposal: Dispose of contents/container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

WARNING: Reproductive Harm - <https://www.p65warnings.ca.gov/>

### SECTION 3: Composition/information on ingredients

#### 3.1 Components

| Chemical name   | Common name and synonyms            | CAS number | Concentration |
|-----------------|-------------------------------------|------------|---------------|
| Ethylene glycol | Monoethylene glycol; 1,2-Ethanediol | 107-21-1   | 30-35%        |
| Water           | Aqua;H2O                            | 7732-18-5  | 65-70%        |

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

General advice

|                                |                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If inhaled</b>              | Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration. |
| <b>In case of skin contact</b> | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.                                                                                                                                                                                                                    |
| <b>In case of eye contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.                                                                                                                                                                                                                            |
| <b>If swallowed</b>            | Do NOT induce vomiting. Call a physician or poison control center immediately.                                                                                                                                                                                                                                                             |

#### 4.2 Most important symptoms and effects, both acute and delayed

Difficulty in breathing.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

|                                       |                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Water spray, Carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. |
| <b>Unsuitable extinguishing media</b> | No information available.                                                             |

#### 5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### 5.3 Special 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.

#### 5.4 Further information

|                                 |                          |
|---------------------------------|--------------------------|
| <b>Flash Point</b>              | No data available        |
| <b>Autoignition Temperature</b> | No information available |

## Explosion limits

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

## NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 1      | 0            | 0           | N/A              |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required.

### 6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not breathe mist/vapors/spray. Avoid contact with skin, eyes, or clothing.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from heat, sparks, and flame.

#### Incompatibilities

Strong oxidizing agents. Strong acids. Strong bases. Aldehydes.

## SECTION 8: Exposure controls/personal protection

## 8.1 Occupational exposure limits

### US. ACGIH Threshold Limit Values

| Component       | Type    | Value     |
|-----------------|---------|-----------|
| Ethylene glycol | Ceiling | 100 mg/m3 |

### Biological occupational exposure limits

No information available.

## 8.2 Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles, as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

Should not be released into the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                |                    |
|----------------|--------------------|
| Physical State | Liquid             |
| Appearance     | Colorless          |
| Odor           | Data not available |
| Odor Threshold | Data not available |
| pH             | Data not available |

|                                           |                                              |
|-------------------------------------------|----------------------------------------------|
| Melting Point/Range                       | Data not available                           |
| Boiling Point/Range                       | Data not available                           |
| Evaporation Rate                          | Data not available                           |
| Flammability (solid)                      | Data not available                           |
| Flammability or explosive limit           | Data not available                           |
| Upper                                     | Data not available                           |
| Lower                                     | Data not available                           |
| Vapor Pressure                            | Data not available                           |
| Vapor Density                             | Data not available                           |
| Density                                   | 1.06                                         |
| Solubility                                | Miscible                                     |
| Partition coefficient;<br>n-octanol/water | No data available                            |
| Autoignition Temp                         | Data not available                           |
| Decomposition Temp                        | Data not available                           |
| Viscosity                                 | Data not available                           |
| Molecular Formula                         | C <sub>2</sub> H <sub>6</sub> O <sub>2</sub> |
| Molecular Weight                          | 62.07 g/mol                                  |
| VOC Content(%)                            | No information available                     |
| Oxidizing properties                      | No information available                     |

**9.2 Other safety information**      No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Hygroscopic.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products. Excess heat. Exposure to moist air or water.

### 10.5 Incompatible materials

Strong oxidizing agents, such as Potassium Permanganate, Chromium Trioxide, Sodium Peroxide, Nitrates, Chlorates, and Perchlorates.

### 10.6 Hazardous decomposition products

Will not occur.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

| Component       | LD50 Oral        | LD50 Dermal | LC50 Inhalation |
|-----------------|------------------|-------------|-----------------|
| Ethylene glycol | 4700 mg/kg (Rat) | -           | -               |

##### Skin corrosion/irritation

May cause skin irritation.

##### Serious eye damage/eye irritation

May cause eye irritation.

##### Respiratory or skin sensitization

May cause respiratory tract irritation.

##### Germ cell mutagenicity

No information available.

##### Carcinogenicity

| Component       | CAS      | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------------|----------|------------|------------|------------|------------|------------|
| Ethylene glycol | 107-21-1 | Not listed | Not listed | Not listed | Not listed | Not listed |

##### Specific target organ toxicity - single exposure

Central nervous system (CNS).

##### Specific target organ toxicity - repeated exposure

Kidney, Liver.

##### Reproductive toxicity

No information available.

##### Chronic effects

No information available.

### 11.2 Additional Information

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

## SECTION 12: Ecological information

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

|                 |                |
|-----------------|----------------|
| <b>DOT (US)</b> | Not regulated. |
|-----------------|----------------|

|             |                |
|-------------|----------------|
| <b>IMDG</b> | Not regulated. |
|-------------|----------------|

|             |                |
|-------------|----------------|
| <b>IATA</b> | Not regulated. |
|-------------|----------------|

## SECTION 15: Regulatory information

|                               |                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>US federal regulations</b> | 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 applicable.



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

Listed, Ethylene glycol (CAS #107-21-1), RQ: 5000 lb.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

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

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous**

See Section 2 for more information.

**SARA 313 (TRI reporting)**

Listed, Ethylene glycol (CAS #107-21-1).

**Other federal regulations**

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

Listed, Ethylene glycol (CAS #107-21-1).

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

Not regulated.

**Safe Drinking Water Act**

Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed, Ethylene glycol (CAS #107-21-1).

**US. New Jersey Worker and Community Right-to-Know Act**

Listed, Ethylene glycol (CAS #107-21-1).

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed, Ethylene glycol (CAS #107-21-1).

**California Proposition 65**

Listed, Ethylene glycol (CAS #107-21-1).

## **SECTION 16: Other information**

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## **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.