



# Phenylethanol Agar

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)  
Issue date: 05-19-2025 Version: 1.0

### SECTION 1 Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : Phenylethanol Agar  
Type of product : Food Safety -- [Food Safety]  
Product code : NCM0153

#### 1.2. Other means of identification

Part Number(s) : NCM0153|400000844|700003408|700003410

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Laboratory chemicals, Scientific research and development

#### 1.4. Supplier's details

Neogen Corporation  
620 Leshar Place  
Lansing, Michigan 48912  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com) - <https://www.neogen.com/>

#### 1.5. Emergency phone number

Emergency number : 24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

### SECTION 2 Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS CA)

Not classified

#### 2.2. GHS label elements, including precautionary statements

##### GHS CA labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

### SECTION 3 Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

| Name            | Chemical name / Synonyms   | Product identifier | %     | Classification (GHS CA)   |
|-----------------|--|--------------------|-------|---|
| 2-Phenylethanol | 2-Phenylethanol<br>2-hydroxyethylbenzene / 2-phenethanol / 2-phenethyl alcohol / 2-phenyl-1-ethanol / 2-phenylethan-1-ol / 2-phenylethanol / 2-phenylethyl alcohol / benzeneethanol / benzyl carbinol / benzylmethanol / beta-hydroxyethylbenzene / beta-PEA / beta-phenethanol / beta-phenethylalcohol / beta-phenylethanol / beta-phenylethyl alcohol / ethanol, 2-phenyl- / FEMA No 2858 / methanol, benzyl- / orange oil / PEA (=2-phenylethanol) / phenethanol / phenethyl alcohol / phenylethanol / phenylethyl alcohol / rose oil | CAS-No.: 60-12-8   | 5.882 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Eye Irrit. 2, H319 |

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

## SECTION 4 First-aid measures

### 4.1. Description of necessary first-aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water.                                |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                         |
| First-aid measures after ingestion    | : Call a poison center/doctor/physician if you feel unwell.      |
| First-aid measures general            | : If you feel unwell, seek medical advice.                       |

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### 4.2. Most important symptoms/effects, acute and delayed

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.                 |
| Symptoms/effects after eye contact  | : None under normal conditions. Dust from this product may cause eye irritation.  |
| Symptoms/effects after ingestion    | : None under normal conditions.   |

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

|                                   |                          |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

## SECTION 5 Fire-fighting measures

### 5.1. Suitable extinguishing media

|                                |                                    |
|--------------------------------|------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam.   |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

### 5.2. Specific hazards arising from the chemical

|  |                                |
|--|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

### 5.3. Special protective actions for fire-fighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| 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

|                           |   |
|---------------------------|---|
| General measures          | : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage. |
| Environmental precautions | : Avoid release to the environment.   |

### 6.2. Methods and materials for containment and cleaning up

|                         |   |
|-------------------------|---|
| For containment         | : Using a clean shovel, put the material in a dry container and cover without compressing it. |
| Methods for cleaning up | : Mechanically recover the product.   |
| Other information       | : Dispose of materials or solid residues at an authorized site.                               |

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. Wear personal protective equipment. |
|-------------------------------|--|

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Hygiene measures : 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

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Storage temperature : 2 – 8 °C  
Packaging materials : Store always product in container of same material as original container.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

#### 2-Phenylethanol (60-12-8)

##### Canada (British Columbia) - Occupational Exposure Limits

|                       |  |
|-----------------------|--|
| Local name            | Phenylethyl alcohol  |
| Notations and remarks | R (Adverse reproductive effect); Skin                                      |
| Regulatory reference  | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) |

##### Canada (Manitoba) - Occupational Exposure Limits

|                       |   |
|-----------------------|---|
| Local name            | Phenylethyl alcohol                           |
| OEL TWA               | 0.5 ppm                                       |
| Notations and remarks | TLV® Basis: Embryo/fetal dam. Notations: Skin |
| Regulatory reference  | ACGIH 2024                                    |

##### Canada (Newfoundland and Labrador) - Occupational Exposure Limits

|                       |   |
|-----------------------|---|
| Local name            | Phenylethyl alcohol                           |
| OEL TWA               | 0.5 ppm                                       |
| Notations and remarks | TLV® Basis: Embryo/fetal dam. Notations: Skin |
| Regulatory reference  | ACGIH 2024                                    |

##### Canada (Nova Scotia) - Occupational Exposure Limits

|                       |   |
|-----------------------|---|
| Local name            | Phenylethyl alcohol                           |
| OEL TWA               | 0.5 ppm                                       |
| Notations and remarks | TLV® Basis: Embryo/fetal dam. Notations: Skin |
| Regulatory reference  | ACGIH 2024                                    |

##### Canada (Prince Edward Island) - Occupational Exposure Limits

|                       |   |
|-----------------------|---|
| Local name            | Phenylethyl alcohol                           |
| OEL TWA               | 0.5 ppm                                       |
| Notations and remarks | TLV® Basis: Embryo/fetal dam. Notations: Skin |
| Regulatory reference  | ACGIH 2024                                    |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

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### 8.3. Individual protection measures, such as personal protective equipment (PPE)

#### Personal protective equipment:

Wear recommended 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. Basic physical and chemical properties

|   |                     |
|---|---------------------|
| Physical state                                  | : Solid             |
| Appearance                                      | : Powder.           |
| Color   | : Beige             |
| Odor  | : Characteristic    |
| Odor threshold                                  | : No data available |
| pH  | : 7.1 – 7.5         |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Relative evaporation rate (ether=1)             | : No data available |
| Melting point                                   | : No data available |
| Freezing point                                  | : Not applicable    |
| Boiling point                                   | : No data available |
| Flash point                                     | : Not applicable    |
| Auto-ignition temperature                       | : Not applicable    |
| Decomposition temperature                       | : No data available |
| Flammability (solid, gas)                       | : Non flammable.    |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20°C                  | : No data available |
| Relative density                                | : No data available |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic                            | : Not applicable    |
| Explosion limits                                | : Not applicable    |
| Particle characteristics                        | : No data available |

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### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | : The product is non-reactive under normal conditions of use, storage and transport.                   |
| Chemical stability                 | : Stable under normal conditions.  |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use.   |
| Conditions to avoid                | : None under recommended storage and handling conditions (see section 7).                              |
| Incompatible materials             | : No additional information available  |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hardening time:                    | : No additional information available  |

## SECTION 11 Toxicological information

### 11.1. Likely routes of exposure

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Phenylethanol Agar              |  |
|---------------------------------|--|
| Unknown acute toxicity (GHS CA) | 35.29% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)<br>70.59% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>70.59% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |

| 2-Phenylethanol (60-12-8)         |  |
|-----------------------------------|--|
| LD50 oral rat                     | 1603 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))            |
| LD50 oral                         | 1500 mg/kg   |
| LD50 dermal rabbit                | 2535 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s)) |
| LD50 dermal                       | 805 mg/kg  |
| LC50 Inhalation - Rat             | > 4.63 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))                                     |
| LC50 Inhalation - Rat (Dust/Mist) | > 1.38 mg/l Source: NITE   |
| ATE CA (oral)                     | 1500 mg/kg body weight   |
| ATE CA (Dermal)                   | 805 mg/kg body weight  |
| ATE CA (dust,mist)                | 1.5 mg/l/4h  |

|                           |                                    |
|---------------------------|------------------------------------|
| Skin corrosion/irritation | : Not classified.<br>pH: 7.1 – 7.5 |
|---------------------------|------------------------------------|

| 2-Phenylethanol (60-12-8) |       |
|---------------------------|-------|
| pH                        | 6 – 7 |

|                               |                                   |
|-------------------------------|-----------------------------------|
| Serious eye damage/irritation | : Not classified<br>pH: 7.1 – 7.5 |
|-------------------------------|-----------------------------------|

| 2-Phenylethanol (60-12-8) |       |
|---------------------------|-------|
| pH                        | 6 – 7 |

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|                                   |                  |
|-----------------------------------|------------------|
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |
| Reproductive toxicity             | : Not classified |
| STOT-single exposure              | : Not classified |
| STOT-repeated exposure            | : Not classified |

### 2-Phenylethanol (60-12-8)

|                                     |   |
|-------------------------------------|---|
| NOAEL (dermal, rat/rabbit, 90 days) | 510 mg/kg body weight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
|-------------------------------------|---|

|                   |                  |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

### Phenylethanol Agar

|                      |                |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

### 2-Phenylethanol (60-12-8)

|                      |   |
|----------------------|---|
| Viscosity, kinematic | 14.1 mm <sup>2</sup> /s (20 °C, OECD 114: Viscosity of Liquids) |
|----------------------|---|

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.                 |
| Symptoms/effects after eye contact  | : None under normal conditions. Dust from this product may cause eye irritation.  |
| Symptoms/effects after ingestion    | : None under normal conditions.   |

## 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. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified   |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified   |

### 2-Phenylethanol (60-12-8)

|                      |   |
|----------------------|---|
| LC50 - Fish [1]      | 215 – 464 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)     |
| EC50 - Crustacea [1] | 287.17 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)  |
| ErC50 algae          | 1300 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 72h - Algae [1] | 490 mg/l Source: IUCLID   |

### 12.2. Persistence and degradability

#### Phenylethanol Agar

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### 2-Phenylethanol (60-12-8)

|                               |  |
|-------------------------------|--|
| Persistence and degradability | Biodegradable in the soil, Readily biodegradable in water. |
|-------------------------------|--|

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| 2-Phenylethanol (60-12-8)       |                                    |
|---------------------------------|------------------------------------|
| Biochemical oxygen demand (BOD) | 1.45 g O <sub>2</sub> /g substance |
| Chemical oxygen demand (COD)    | 2.5 g O <sub>2</sub> /g substance  |
| ThOD                            | 2.6 g O <sub>2</sub> /g substance  |

### 12.3. Bioaccumulative potential

| 2-Phenylethanol (60-12-8)                       |   |
|---|---|
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).  |
| Partition coefficient n-octanol/water (Log Pow) | 1.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C) |

### 12.4. Mobility in soil

| 2-Phenylethanol (60-12-8)                                  |  |
|--|--|
| Surface tension  | 59.7 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)   |
| Ecology - soil   | Highly mobile in soil.   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.5 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |

### 12.5. Other adverse effects

|                              |                  |
|------------------------------|------------------|
| Ozone                        | : Not classified |
| Fluorinated greenhouse gases | : No             |

## SECTION 13 Disposal considerations

|  |   |
|--|---|
| Regional waste regulation                  | : Disposal must be done according to official regulations.  |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                           |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.  |
| Product/Packaging disposal recommendations | : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations. |
| Additional information                     | : Do not re-use empty containers.   |

## SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

| TDG                                       | DOT           | IMDG          | IATA          |
|---|---------------|---------------|---------------|
| <b>14.1. UN Number</b>                    |               |               |               |
| Not regulated for transport               |               |               |               |
| <b>14.2. UN Proper Shipping Name</b>      |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b>   |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group, if applicable</b> |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |

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| TDG                                    | DOT           | IMDG          | IATA          |
|--|---------------|---------------|---------------|
| <b>14.5. Environmental hazards</b>     |               |               |               |
| Not regulated                          | Not regulated | Not regulated | Not regulated |
| No supplementary information available |               |               |               |

### 14.6. Special precautions for user

#### TDG

Not regulated

#### DOT

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78<sup>9</sup> and the IBC Code<sup>10</sup>

Not applicable

## SECTION 15 Regulatory information

### 2-Phenylethanol (60-12-8)

#### Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags

Significant New Activity (SNAc) provisions of the Act apply

### 2-Phenylethanol (60-12-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## SECTION 16 Other Information

Issue date : 05-19-2025

### Full text of hazard classes and H-statements:

|      |                               |
|------|-------------------------------|
| H302 | Harmful if swallowed          |
| H311 | Toxic in contact with skin    |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled            |

Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.