



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and  
Regulation (EC) No. 1272/2008

Revision date 02-Dec-2024

Version 6

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

### 1.1. Product identifier

**Product No** E8035  
**Product name** Amylose Magnetic Beads  
**Pure substance/mixture** Mixture

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

**Recommended use** This product is for research and development only  
**Uses advised against**

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

**Supplier Address**  
New England BioLabs  
240 County Road  
Ipswich, MA 01938  
USA

For further information, please contact

**Company Phone Number** 978-927-5054, 800-632-5227 (toll free)  
**Telefax** 978-921-1350  
**E-mail address** info@neb.com

### 1.4. Emergency telephone number

24 Hour Emergency Phone Number Chemtrec +44 20 3885 0382

|        |                 |
|--------|-----------------|
| Europe | +1 978-380-2125 |
|--------|-----------------|

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification according to  
Regulation (EC) No. 1272/2008 [CLP]

|                                                |                     |
|------------------------------------------------|---------------------|
| Flammable liquids                              | Category 2 - (H225) |
| Hazardous to the aquatic environment - chronic | Category 3 - (H412) |

**2.2. Label elements****Signal word**

Danger

**Hazard statements**

H225 - Highly flammable liquid and vapor  
H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P273 - Avoid release to the environment.  
P370 + P378 - In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish.  
P403 + P235 - Store in a well-ventilated place. Keep cool.  
P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

**Unknown aquatic toxicity**                      Contains 0 % of components with unknown hazards to the aquatic environment.

**Additional information**

This product requires tactile warnings if supplied to the general public.

**2.3. Other hazards**

No information available.

**Endocrine Disruptor Information**                      This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

The product contains no substances which at their given concentration, are considered to be hazardous to health

| Chemical name      | Weight-% | REACH registration number | EC No (EU Index No)         | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|--------------------|----------|---------------------------|-----------------------------|-----------------------------------------------------------------|------------------------------------|----------|----------------------|
| Ethanol<br>64-17-5 | 10 - 30  | No data available         | 200-578-6<br>(603-002-00-5) | Flam. Liq. 2 (H225)                                             | -                                  | -        | -                    |

**Full text of H- and EUH-phrases: see section 16****Acute Toxicity Estimate**

No information available

| Chemical name      | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--------------------|-----------------|-------------------|---------------------------------------------|-----------------------------------------|--------------------------------------|
| Ethanol<br>64-17-5 | 7060            | No data available | 116.9<br>133.8                              | No data available                       | No data available                    |

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                                           |                                                                                                                                                                                                                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                         | Remove to fresh air.                                                                                                                                                                                                                                                |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.                                                                                                                |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                                                                                                                                                               |
| <b>Ingestion</b>                          | Rinse mouth.                                                                                                                                                                                                                                                        |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. |

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

Symptoms No information available.

Effects of Exposure None.

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

Note to physicians Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

**Other information** Ventilate the area.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

**Advice on safe handling** Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 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, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

**Storage class (TRGS 510)** Storage class 3.

## 7.3. Specific end use(s)

**Risk management methods [RMM]** The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

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

| Chemical name      | European Union                                                                                 | Austria                                                                                      | Belgium                                                                                        | Bulgaria                                                                                      | Croatia                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Ethanol<br>64-17-5 | -                                                                                              | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL 2000 ppm<br>STEL 3800 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1907 mg/m <sup>3</sup>                                                   | TWA: 1000 mg/m <sup>3</sup>                                                                   | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                                                   |
| Chemical name      | Cyprus                                                                                         | Czech Republic                                                                               | Denmark                                                                                        | Estonia                                                                                       | Finland                                                                                        |
| Ethanol<br>64-17-5 | -                                                                                              | TWA: 1000 mg/m <sup>3</sup><br>Ceiling: 3000 mg/m <sup>3</sup>                               | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 2000 ppm<br>STEL: 3800 mg/m <sup>3</sup> | TWA: 500 ppm<br>TWA: 1000 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1900 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 1300 ppm<br>STEL: 2500 mg/m <sup>3</sup> |
| Chemical name      | France                                                                                         | Germany TRGS                                                                                 | Germany DFG                                                                                    | Greece                                                                                        | Hungary                                                                                        |
| Ethanol<br>64-17-5 | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 5000 ppm<br>STEL: 9500 mg/m <sup>3</sup> | TWA: 200 ppm<br>TWA: 380 mg/m <sup>3</sup>                                                   | TWA: 200 ppm<br>TWA: 380 mg/m <sup>3</sup><br>Peak: 800 ppm<br>Peak: 1520 mg/m <sup>3</sup>    | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                                                  | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 2000 ppm<br>STEL: 3800 mg/m <sup>3</sup> |
| Chemical name      | Ireland                                                                                        | Italy MDLPS                                                                                  | Italy AIDII                                                                                    | Latvia                                                                                        | Lithuania                                                                                      |
| Ethanol<br>64-17-5 | STEL: 1000 ppm                                                                                 | -                                                                                            | STEL: 1000 ppm<br>STEL: 1884 mg/m <sup>3</sup>                                                 | TWA: 1000 mg/m <sup>3</sup>                                                                   | TWA: 500 ppm<br>TWA: 1000 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1900 mg/m <sup>3</sup>  |
| Chemical name      | Luxembourg                                                                                     | Malta                                                                                        | Netherlands                                                                                    | Norway                                                                                        | Poland                                                                                         |
| Ethanol<br>64-17-5 | -                                                                                              | -                                                                                            | TWA: 137 ppm<br>TWA: 260 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1900 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 950 mg/m <sup>3</sup><br>STEL: 625 ppm<br>STEL: 1187.5 mg/m <sup>3</sup> | TWA: 1900 mg/m <sup>3</sup>                                                                    |

|                    |                                                                                                                   |                                                                                                | Sk*                                                                                          |                                                                                              |                                                                                                |
|--------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Chemical name      | Portugal                                                                                                          | Romania                                                                                        | Slovakia                                                                                     | Slovenia                                                                                     | Spain                                                                                          |
| Ethanol<br>64-17-5 | STEL: 1000 ppm                                                                                                    | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 5000 ppm<br>STEL: 9500 mg/m <sup>3</sup> | TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup><br>Ceiling: 1920 mg/m <sup>3</sup>                | TWA: 960 mg/m <sup>3</sup><br>TWA: 500 ppm<br>STEL: 1000 ppm<br>STEL: 1920 mg/m <sup>3</sup> | STEL: 1000 ppm<br>STEL: 1910 mg/m <sup>3</sup>                                                 |
| Chemical name      | Sweden                                                                                                            |                                                                                                | Switzerland                                                                                  |                                                                                              | United Kingdom                                                                                 |
| Ethanol<br>64-17-5 | NGV: 500 ppm<br>NGV: 1000 mg/m <sup>3</sup><br>Vägledande KGV: 1000 ppm<br>Vägledande KGV: 1900 mg/m <sup>3</sup> |                                                                                                | TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1920 mg/m <sup>3</sup> |                                                                                              | TWA: 1000 ppm<br>TWA: 1920 mg/m <sup>3</sup><br>STEL: 3000 ppm<br>STEL: 5760 mg/m <sup>3</sup> |

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL) - Workers

| Chemical name      | Oral | Dermal                   | Inhalation                                                      |
|--------------------|------|--------------------------|-----------------------------------------------------------------|
| Ethanol<br>64-17-5 | -    | 343 mg/kg bw/day [4] [6] | 950 mg/m <sup>3</sup> [4] [6]<br>1900 mg/m <sup>3</sup> [5] [7] |

#### Notes

- [4] Systemic health effects.  
 [5] Local health effects.  
 [6] Long term.  
 [7] Short term.

#### Derived No Effect Level (DNEL) - General Public

| Chemical name      | Oral                    | Dermal | Inhalation                                                     |
|--------------------|-------------------------|--------|----------------------------------------------------------------|
| Ethanol<br>64-17-5 | 87 mg/kg bw/day [4] [6] | -      | 114 mg/m <sup>3</sup> [4] [6]<br>950 mg/m <sup>3</sup> [5] [7] |

#### Notes

- [4] Systemic health effects.  
 [5] Local health effects.  
 [6] Long term.  
 [7] Short term.

**Predicted No Effect Concentration (PNEC)** No information available.

#### 8.2. Exposure controls

**Engineering controls** No information available.

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

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

|                                        |                                                                                                                                                                                                                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory protection</b>          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.                                                                                              |
| <b>General hygiene considerations</b>  | Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. |
| <b>Environmental exposure controls</b> | No information available.                                                                                                                                                                                                                                             |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   |
| <b>Appearance</b>     | Colorless                |
| <b>Color</b>          | No information available |
| <b>Odor</b>           | Sweet.                   |
| <b>Odor threshold</b> | No information available |

| <u>Property</u>                                | <u>Values</u>            | <u>Remarks • Method</u> |
|------------------------------------------------|--------------------------|-------------------------|
| <b>Melting point / freezing point</b>          | No data available        | None known              |
| <b>Initial boiling point and boiling range</b> | > 78 °C                  |                         |
| <b>Flammability (solid, gas)</b>               | No data available        | None known              |
| <b>Flammability Limit in Air</b>               |                          | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available        |                         |
| <b>Lower flammability or explosive limits</b>  | No data available        |                         |
| <b>Flash point</b>                             | > -114 °C                | Tag Closed Cup          |
| <b>Autoignition temperature</b>                | 363 °C                   |                         |
| <b>Decomposition temperature</b>               |                          | None known              |
| <b>pH</b>                                      | No data available        | None known              |
| <b>pH (as aqueous solution)</b>                | No data available        | None known              |
| <b>Kinematic viscosity</b>                     | No data available        | None known              |
| <b>Dynamic viscosity</b>                       | No data available        | None known              |
| <b>Water solubility</b>                        | No data available        | None known              |
| <b>Solubility(ies)</b>                         | Soluble in water         |                         |
| <b>Partition coefficient</b>                   | No data available        | None known              |
| <b>Vapor pressure</b>                          | <1 mmHg                  |                         |
| <b>Relative density</b>                        | 1.262                    |                         |
| <b>Bulk density</b>                            | No data available        |                         |
| <b>Liquid Density</b>                          | No data available        |                         |
| <b>Vapor density</b>                           | 3.1 g/l                  |                         |
| <b>Particle characteristics</b>                |                          |                         |
| <b>Particle Size</b>                           | No information available |                         |
| <b>Particle Size Distribution</b>              | No information available |                         |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

Reactivity No information available.

**10.2. Chemical stability**

Stability Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions None under normal processing.

**10.4. Conditions to avoid**

Conditions to avoid Heat, flames and sparks.

**10.5. Incompatible materials**

Incompatible materials None known based on information supplied.

**10.6. Hazardous decomposition products**

Hazardous decomposition products None known based on information supplied.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

**Symptoms related to the physical, chemical and toxicological characteristics**

Symptoms No information available.

**Acute toxicity****Numerical measures of toxicity**

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

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (oral)                 | 35,300.00 mg/kg |
| ATEmix (dermal)               | 99,999.00 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm   |
| ATEmix (inhalation-vapor)     | 99,999.00 mg/l  |
| ATEmix (inhalation-dust/mist) | 584.50 mg/l     |

| Chemical name | Oral LD50            | Dermal LD50 | Inhalation LC50                                      |
|---------------|----------------------|-------------|------------------------------------------------------|
| Ethanol       | = 7060 mg/kg ( Rat ) | -           | = 116.9 mg/L ( Rat ) 4 h<br>= 133.8 mg/L ( Rat ) 4 h |

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

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

#### 11.2. Information on other hazards

##### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

##### 11.2.2. Other information

**Other adverse effects** No information available.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish                                                                     | Toxicity to microorganisms | Crustacea                                                                        |
|---------------|----------------------|--------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------|
| Ethanol       | -                    | LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss)<br>LC50: >100mg/L (96h, | -                          | LC50: 9268 - 14221mg/L (48h, Daphnia magna)<br>EC50: =2mg/L (48h, Daphnia magna) |

|  |  |                                                                                  |  |  |
|--|--|----------------------------------------------------------------------------------|--|--|
|  |  | Pimephales promelas)<br>LC50: 13400 - 15100mg/L<br>(96h, Pimephales<br>promelas) |  |  |
|--|--|----------------------------------------------------------------------------------|--|--|

**12.2. Persistence and degradability**

Persistence and degradability No information available.

**12.3. Bioaccumulative potential****Bioaccumulation**

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Ethanol       | -0.35                 |

**12.4. Mobility in soil**

Mobility in soil No information available.

**12.5. Results of PBT and vPvB assessment**

PBT and vPvB assessment No information available.

| Chemical name | PBT and vPvB assessment         |
|---------------|---------------------------------|
| Ethanol       | The substance is not PBT / vPvB |

**12.6. Endocrine disrupting properties**

Endocrine disrupting properties No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

**SECTION 14: Transport information****IATA**

- 14.1 UN number or ID number UN1170  
14.2 Extended Proper Shipping Name ETHANOL SOLUTION  
14.3 Transport hazard class(es) 3  
14.4 Packing group II  
14.5 Environmental hazard Not applicable  
14.6 Special precautions for user

Special Provisions None

**IMDG**

14.1 UN number or ID number Not regulated  
 14.2 Extended Proper Shipping Name Not regulated  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental hazard Not applicable  
 14.6 Special precautions for user  
 Special Provisions None  
 14.7 Maritime transport in bulk according to IMO instruments No information available

**RID**

14.1 UN number or ID number Not regulated  
 14.2 Extended Proper Shipping Name Not regulated  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental hazard Not applicable  
 14.6 Special precautions for user  
 Special Provisions None

**ADR**

14.1 UN number or ID number Not regulated  
 14.2 UN proper shipping name ETHANOL SOLUTION  
 14.3 Transport hazard class(es) Not regulated  
 14.4 Packing group Not regulated  
 14.5 Environmental hazard Not applicable  
 14.6 Special precautions for user  
 Special Provisions None

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

| Chemical name     | French RG number |
|-------------------|------------------|
| Ethanol - 64-17-5 | RG 84            |

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins                                            |
|---------------|-----------------------------------|--------------------------------|--------------------------------------------------------------------------------------|
| Ethanol       | Present                           | -                              | Fertility Category 1A<br>Development Category 1A<br>Can be harmful via breastfeeding |

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

**Ozone-depleting substances (ODS) Regulation (EU) 2024/590**

Not applicable

| Chemical name     | Biocidal Products Regulation (EU) No 528/2012 (BPR)                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethanol - 64-17-5 | Product-type 1: Human hygiene Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 4: Food and feed area |

**International Inventories****TSCA**

Contact supplier for inventory compliance status

**DSL/NDL**

Contact supplier for inventory compliance status

**EINECS/ELINCS**

Contact supplier for inventory compliance status

**ENCS**

Contact supplier for inventory compliance status

**IECSC**

Contact supplier for inventory compliance status

**KECL**

Contact supplier for inventory compliance status

**PICCS**

Contact supplier for inventory compliance status

**AIIC**

Contact supplier for inventory compliance status

**NZIoC**

Contact supplier for inventory compliance status

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing Chemicals Inventory**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**NZIoC** - New Zealand Inventory of Chemicals**15.2. Chemical safety assessment****Chemical Safety Report** No information available**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

Sk\*

Skin designation

+ Sensitizers

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

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**End of Safety Data Sheet**