

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

#### 1.1. Product identifier

|                               |                          |
|-------------------------------|--------------------------|
| Product form                  | : Substance              |
| Trade name                    | : TURBICEL               |
| Chemical name                 | : Cellulose              |
| EC-No.                        | : 232-674-9              |
| CAS-No.                       | : 9004-34-6              |
| Type of product               | : For œnological use     |
| Formula                       | : (C6H10O5) <sub>n</sub> |
| Product group                 | : Trade product          |
| Other means of identification | : E 460(i)               |

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional users only

Use of the substance/mixture : Support element for yeast in highly clarified medium.

Use of the substance/mixture : For œnological use

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

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##### Distributor

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# TURBICEL

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according to Regulation (EU) 2015/830

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### 1.4. Emergency telephone number

| Country        | Organisation/Company   | Address   | Emergency number                     | Comment |
|----------------|--|---|--------------------------------------|---------|
| Australia      | NSW Poisons Information Centre   | The Children's Hospital at Westmead<br>Locked Bag 4001<br>NSW 2145 Westmead                         | 13 11 26<br>+56 2 2 247 3600         |         |
| Canada         | Ontario Poison Centre (OPC)  | The Hospital for Sick Children<br>555 University Avenue<br>ON M5G 1X8 Toronto                       | 1-800-268-9017<br>(416) 813-5900     |         |
| Canada         | BC Drug and Poison Information Centre (DPIC)   | 655 West 12th Avenue<br>BC V5Z 4R4 Vancouver  | 1-800-567-8911<br>(604) 682-5050     |         |
| China          | National Poison Control Center   | Chinese Center for Disease Control and Prevention<br>Nanwei road, No.29<br>100050 Beijing           | +86 10 831 32 046                    |         |
| Croatia        | Centar za kontrolu otrovanja<br>Institut za medicinska istraživanja i medicinu rada        | Ksaverska Cesta 2<br>p.p. 291<br>10000 Zagreb   | +385 1 234 8342                      |         |
| Czech Republic | Toxikologické informační středisko<br>Klinika pracovního lékařství<br>VFN a 1. LF UK       | Na Bojišti 1<br>120 00 Praha 2  | +420 224 919 293<br>+420 224 915 402 |         |
| Georgia        | National Toxicology Information Advisory Center  | Tbilisi State Medical University<br>Department of Toxicology - 7<br>Asatiani St.<br>380 077 Tbilisi | +995 99 533320                       |         |
| Greece         | Poisons Information Centre<br>Children's Hospital P&A<br>Kyriakou                          | 11762 Athens  | +30 2 10 779 3777                    |         |
| Hungary        | Országos Kémiai Biztonsági Intézet<br>Egészségügyi Toxikológiai Tájékoztató Szolgálat      | Nagyvárad tér 2.<br>1437 Budapest, Pf. 839<br>1097 Budapest   | +36 80 20 11 99                      |         |
| Israel         | Israel Poison Information Center<br>Rambam Health Care Campus                              | 6 Ha'Aliya Street<br>31096 Haifa  | +972 4 854 1900                      |         |
| Japan          | Japan Poison Information Center  | Tsukuba Medical Center<br>1-1-1 Amakubo<br>305-0005 Tsukuba City,<br>Ibaraki                        | +81-29-856-3566<br>+81-72-727-2499   |         |
| Malta          | Medicines & Poisons Info Office  | Mater Dei Hospital<br>MSD Msida   | +356 2545 6504                       |         |
| New Zealand    | National Poisons Centre  | Dunedin School of Medicine,<br>University of Otago<br>PO Box 913<br>9054 Dunedin                    | 0800 764 766<br>+56 2 2 247 3600     |         |
| Poland         | National Poisons Information Centre<br>The Nofer Institute of Occupational Medicine (Łódź) | ul. Teresy 8<br>P.O. BOX 199<br>90950 Łódź  | +48 42 63 14 724                     |         |

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| Country                  | Organisation/Company   | Address  | Emergency number                       | Comment   |
|--------------------------|--|--|--|---|
| Romania                  | Department of Clinical Toxicology<br>Spitalul de Urgenta Floreasca   | Calea Floreasca<br>Bucuresti   | +40 21 230 8000                        |   |
| Russia                   | Информационно-консультативный центр по токсикологии (RTIAC)<br>Министерство здравоохранения Российской Федерации | 3 Сухаревская Площадь<br>Блок 7<br>129090 г. Москва  | +7 495 628 1687<br>(только на русском) |   |
| Slovenia                 | Center za klinično toksikologijo in farmakologijo<br>Interna klinika, UKCL                                       | Zaloška cesta 7<br>1525 Ljubljana  | +386 41 650 500                        |   |
| South Africa             | Tygerberg Poison Information Centre  | Division of Clinical Pharmacology Faculty of Medicine and Health Sciences<br>Stellenbosch University - PO Box 241<br>8 000 Cape Town | 0861 555 777<br>+56 2 2 247 3600       |   |
| Turkey                   | Ulusal Zehir Merkezi (UZEM)<br>Refik Saydam Hıfzısıhha Merkezi Başkanlığı  | Cemal Gürsel Cd. No: 18<br>Sıhhiye<br>Çankaya<br>6590 Ankara   | 114                                    | Information is provided to public and medical personnel on poisoning incidents via 114. |
| United Kingdom           | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit,<br>Guy's & St Thomas' Hospital Trust                 | Avonley Road<br>SE14 5ER London  | +44 20 7188 7188                       |   |
| United States of America | American Association of Poison Control Centers   | 515 King St., Suite 510<br>VA 22314 Alexandria   | 1-800-222-1222<br>+56 2 2 247 3600     |   |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

### 2.3. Other hazards

No additional information available

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance type : Mono-constituent  
Name : TURBICEL  
CAS-No. : 9004-34-6  
EC-No. : 232-674-9

| Name                                  | Product identifier                        | %   |
|---------------------------------------|---|-----|
| Microcrystalline cellulose - E 460(i) | (CAS-No.) 9004-34-6<br>(EC-No.) 232-674-9 | 100 |

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : If symptoms persist call a doctor.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.  
First-aid measures after skin contact : After contact with skin, wash immediately and thoroughly with water and soap. If symptoms persist, call a physician.  
First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : More detailed information: See section 11.  
Symptoms/effects after eye contact : May cause slight irritation.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : carbon dioxide (CO<sub>2</sub>), powder, alcohol-resistant foam, water spray.  
Unsuitable extinguishing media : Do not use water jet.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO<sub>2</sub>).

#### 5.3. Advice for firefighters

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

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Other information : Do not contaminate ground and surface water. Dispose in a safe manner in accordance with local/national regulations.

### SECTION 6: Accidental release measures

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

General measures : Evacuate personnel to a safe area.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

Measures in case of dust release : Avoid dust formation.

##### 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

Do not flush into surface water or sewer system.

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

Methods for cleaning up : Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.

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

#### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Store tightly closed in a dry and cool place. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear recommended personal protective equipment.

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 only in the original container.

Storage conditions : Keep container tightly closed to prevent moisture pick-up. Store in a dry, cool place. Keep in a well-ventilated room. Keep out of direct sunlight.

Incompatible materials : Do not mix with oxidizing agents.

Heat and ignition sources : Keep away from ignition sources (including static discharges).

#### 7.3. Specific end use(s)

For œnological use.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| TURBICEL (9004-34-6) |                          |                              |
|----------------------|--------------------------|------------------------------|
| France               | Local name               | Cellulose (fibre de papier)  |
| France               | VME (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup>         |
| France               | Note (FR)                | Valeurs recommandées/admises |

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| TURBICEL (9004-34-6) |                             |   |
|----------------------|-----------------------------|---|
| France               | Regulatory reference        | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)                  |
| Spain                | Local name                  | Celulosa  |
| Spain                | VLA-ED (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup>  |
| Spain                | Regulatory reference        | Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT |

| Microcrystalline cellulose - E 460(I) (9004-34-6) |                             |   |
|---|-----------------------------|---|
| France  | Local name                  | Cellulose (fibre de papier)   |
| France  | VME (mg/m <sup>3</sup> )    | 10 mg/m <sup>3</sup>  |
| France  | Note (FR)                   | Valeurs recommandées/admises  |
| France  | Regulatory reference        | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)                  |
| Spain   | Local name                  | Celulosa  |
| Spain   | VLA-ED (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup>  |
| Spain   | Regulatory reference        | Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT |

## 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protective equipment:

Refer to protective measures listed in Sections 7 and 8.

### Materials for protective clothing:

Wear suitable protective clothing

### Hand protection:

In case of excessive dust production. Wear protective gloves.

| Type              | Material             | Permeation        | Thickness (mm) | Penetration | Standard |
|-------------------|----------------------|-------------------|----------------|-------------|----------|
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0.11           |             | EN 374   |

### Eye protection:

Use eye protection according to EN 166, designed to protect against powders and dusts.

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation. EN 143

| Device    | Filter type | Condition | Standard |
|-----------|-------------|-----------|----------|
| Dust mask | Type P1     |           |          |

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### Environmental exposure controls:

Do not allow into drains or water courses. Avoid release to the environment.

### Other information:

Do not eat, drink or smoke during work. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

## SECTION 9: Physical and chemical properties

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

|  |                                      |
|--|--------------------------------------|
| Physical state                             | : Solid                              |
| Appearance                                 | : Powder.                            |
| Colour                                     | : white.                             |
| Odour                                      | : Product (article) characteristics. |
| Odour threshold                            | : No data available                  |
| pH   | : No data available                  |
| pH solution                                | : 5 - 7,5 100g/L - 20°C              |
| Relative evaporation rate (butylacetate=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                  | : ≈ 500 Not applicable               |
| Decomposition temperature                  | : ≈ 200 °C                           |
| Flammability (solid, gas)                  | : No data available                  |
| Vapour pressure                            | : No data available                  |
| Relative vapour density at 20 °C           | : 0                                  |
| Relative density                           | : 1,5 Not applicable                 |
| Solubility                                 | : insoluble in water.                |
| Log Pow                                    | : No data available                  |
| Viscosity, kinematic                       | : Not applicable                     |
| Viscosity, dynamic                         | : No data available                  |
| Explosive properties                       | : Not explosive.                     |
| Oxidising properties                       | : No data available                  |
| Explosive limits                           | : Not applicable                     |

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### 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

Heat. flames or sparks. Moisture.

### 10.5. Incompatible materials

Oxidation agents.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

| Microcrystalline cellulose - E 460(i) (9004-34-6) |              |
|---|--------------|
| LD50 oral rat                                     | > 5000 mg/kg |
| LD50 dermal rabbit                                | > 2000 mg/kg |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : May cause eye-irritation of susceptible persons  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified



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Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

#### 12.2. Persistence and degradability

| Microcrystalline cellulose - E 460(I) (9004-34-6) |  |
|---|--|
| Persistence and degradability                     | Biodegradable. No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended. |

#### 12.3. Bioaccumulative potential

| Microcrystalline cellulose - E 460(I) (9004-34-6) |                              |
|---|------------------------------|
| Bioaccumulative potential                         | There is no bioaccumulation. |

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

Product/Packaging disposal recommendations : Empty remaining contents. Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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### 14.1. UN number

|               |                 |
|---------------|-----------------|
| UN-No. (ADR)  | : Not regulated |
| UN-No. (IMDG) | : Not regulated |
| UN-No. (IATA) | : Not regulated |
| UN-No. (ADN)  | : Not regulated |
| UN-No. (RID)  | : Not regulated |

### 14.2. UN proper shipping name

|                             |                 |
|-----------------------------|-----------------|
| Proper Shipping Name (ADR)  | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |
| Proper Shipping Name (ADN)  | : Not regulated |
| Proper Shipping Name (RID)  | : Not regulated |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (ADR) | : Not regulated |
|----------------------------------|-----------------|

#### IMDG

|                                   |                 |
|-----------------------------------|-----------------|
| Transport hazard class(es) (IMDG) | : Not regulated |
|-----------------------------------|-----------------|

#### IATA

|                                   |                 |
|-----------------------------------|-----------------|
| Transport hazard class(es) (IATA) | : Not regulated |
|-----------------------------------|-----------------|

#### ADN

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (ADN) | : Not regulated |
|----------------------------------|-----------------|

#### RID

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (RID) | : Not regulated |
|----------------------------------|-----------------|

### 14.4. Packing group

|                      |                 |
|----------------------|-----------------|
| Packing group (ADR)  | : Not regulated |
| Packing group (IMDG) | : Not regulated |
| Packing group (IATA) | : Not regulated |
| Packing group (ADN)  | : Not regulated |
| Packing group (RID)  | : Not regulated |

### 14.5. Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

- Overland transport  
Not regulated
- Transport by sea  
Not regulated

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- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

TURBICEL is not on the REACH Candidate List

TURBICEL is not on the REACH Annex XIV List

Other information, restriction and prohibition regulations : For œnological use.

#### 15.1.2. National regulations

##### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : TURBICEL is listed

SZW-lijst van mutagene stoffen : TURBICEL is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

| Indication of changes: |  |        |          |
|------------------------|--|--------|----------|
| Revision - See : *.    |  |        |          |
| Section                | Changed item                                     | Change | Comments |
| 4.2                    | Symptoms/ effects after eye contact              | Added  |          |
| 5.2                    | Hazardous decomposition products in case of fire | Added  |          |
| 6.1                    | General measures                                 | Added  |          |
| 6.3                    | Methods for cleaning up                          | Added  |          |
| 7.2                    | Incompatible materials                           | Added  |          |
| 7.3                    | Specific end uses                                | Added  |          |

*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*