



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 01-Dec-2022

Revision Number 1

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

### **1.1. Product identifier**

**Product Code(s)** TRC-D198955-100MG

**Product Name** Deacetyl Ketoconazole

*NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II*

**EC No (EU Index No)** 267-745-3

**CAS No** 67914-61-8

**Chemical name** Deacetyl ketoconazole

**Pure substance/mixture** Substance

**Formula** C<sub>24</sub>H<sub>26</sub>C<sub>12</sub>N<sub>4</sub>O<sub>3</sub>

**Molecular weight** 489.39

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

**Recommended use** Laboratory use

**Uses advised against** No information available

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

#### **Supplier**

LGC Limited  
Queens Road  
Teddington  
Middlesex TW11 0LY  
UNITED KINGDOM  
:+44 (0) 20 8943 7000  
Fax :+44 (0) 20 8943 2767  
eMail : gb@lgcstandards.com

Web : [www.lgcstandards.com](http://www.lgcstandards.com)

**For further information, please contact**

**E-mail address** [sds-request@lgcgroup.com](mailto:sds-request@lgcgroup.com)



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## TRC-D198955-100MG - Deacetyl Ketoconazole

### 1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident  
Spill, Leak, Fire Exposure, or Accident  
Call CHEMTREC:  
USA & Canada 1-800-424-9300  
Rest of the world +1 703-741-5970

| <b>Emergency Telephone - §45 - (EC)1272/2008</b> |                          |
|--|--------------------------|
| Europe   | <b>112</b>               |
| Austria  | No information available |
| Bulgaria   |                          |
| Croatia  |                          |
| Cyprus   |                          |
| Czech Republic                                   |                          |
| Denmark  |                          |
| France   |                          |
| Hungary  |                          |
| Ireland  |                          |
| Italy  |                          |
| Lithuania  |                          |
| Luxembourg                                       |                          |
| Netherlands                                      |                          |
| Norway   |                          |
| Portugal   |                          |
| Romania  |                          |
| Slovakia   |                          |
| Slovenia   |                          |
| Spain  |                          |
| Sweden   |                          |
| Switzerland                                      |                          |

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|  |                       |
|--|-----------------------|
| Acute toxicity - Oral                              | Category 3 - (H301)   |
| Reproductive toxicity                              | Category 1B - (H360F) |
| Specific target organ toxicity — repeated exposure | Category 2 - (H373)   |
| Acute aquatic toxicity                             | Category 1 - (H400)   |
| Chronic aquatic toxicity                           | Category 1 - (H410)   |

### 2.2. Label elements



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Contains Deacetyl ketoconazole



**Signal word**  
Danger

### Hazard statements

H301 - Toxic if swallowed

H360F - May damage fertility

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

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

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P391 - Collect spillage

### 2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

This product does not contain any known or suspected endocrine disruptors.

| Chemical name         | EU - REACH (1907/2006) - Article 59(1)<br>- Candidate List of Substances of Very<br>High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine<br>Disruptor Assessment List of<br>Substances |
|-----------------------|---|--|
| Deacetyl ketoconazole | -   | -  |

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

| 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) |
|---------------|----------|---------------------------|---------------------|---|------------------------------------|----------|----------------------|
|               |          |                           |                     |   |                                    |          |                      |



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|                                  |     |   |           |   |  |  |  |
|----------------------------------|-----|---|-----------|---|--|--|--|
| Deacylketoconazole<br>67914-61-8 | 100 | - | 267-745-3 | Acute Tox. 3 (H301)<br>Repr. 1B (H360F)<br>STOT RE 2 (H373)<br>Aquatic Acute 1<br>(H400)<br>Aquatic Chronic 1<br>(H410) |  |  |  |
|----------------------------------|-----|---|-----------|---|--|--|--|

### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate  
No information available

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>     | Remove to fresh air.   |
| <b>Eye contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.  |
| <b>Skin contact</b>   | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.                  |
| <b>Ingestion</b>      | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention. |

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

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

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

|                        |                        |
|------------------------|------------------------|
| <b>Note to doctors</b> | Treat symptomatically. |
|------------------------|------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media



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**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**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** No information available.

### 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** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

**Other information** Refer to protective measures listed in Sections 7 and 8.

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

### 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**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**



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### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Ensure adequate ventilation.

#### **General hygiene considerations**

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

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

#### **Storage Conditions**

Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

### 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.

#### **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)**

No information available.

#### **Predicted No Effect Concentration (PNEC)**

No information available.

### 8.2. Exposure controls

#### **Personal protective equipment**

#### **Eye/face protection**

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).



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|  |  |
|--|--|
| <b>Hand protection</b>                 | Wear suitable gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective Viton™ gloves.   |
| <b>Skin and body protection</b>        | Wear suitable protective clothing.   |
| <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>  | Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. |
| <b>Environmental exposure controls</b> | Do not allow into any sewer, on the ground or into any body of water.  |

## SECTION 9: Physical and chemical properties

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

|                       |                           |
|-----------------------|---------------------------|
| <b>Physical state</b> | Solid                     |
| <b>Appearance</b>     | Solid                     |
| <b>Colour</b>         | off-white                 |
| <b>Odour</b>          | No information available. |

| <b>Property</b>                                | <b>Values</b>                                | <b>Remarks • Method</b>  |
|--|--|--------------------------|
| <b>Melting point / freezing point</b>          | 166 - 169 °C                                 | None known               |
| <b>Initial boiling point and boiling range</b> | No data available                            | None known               |
| <b>Flammability</b>                            | No data available                            | None known               |
| <b>Flammability Limit in Air</b>               | No data available                            | 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>                             | No data available                            | None known               |
| <b>Autoignition temperature</b>                | No data available                            | None known               |
| <b>Decomposition temperature</b>               | No data available                            | None known               |
| <b>pH</b>                                      | No data available                            | None known               |
| <b>pH (as aqueous solution)</b>                | No data available                            | No information available |
| <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>                         | slightly soluble, Chloroform, DMSO, Methanol |                          |
| <b>Partition coefficient</b>                   | No data available                            | None known               |



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|                                   |                          |            |
|-----------------------------------|--------------------------|------------|
| <b>Vapour pressure</b>            | No data available        | None known |
| <b>Relative density</b>           | No data available        | None known |
| <b>Bulk density</b>               | No data available        |            |
| <b>Liquid Density</b>             | No data available        |            |
| <b>Relative vapour density</b>    | No data available        | None known |
| <b>Particle characteristics</b>   |                          |            |
| <b>Particle Size</b>              | No information available |            |
| <b>Particle Size Distribution</b> | No information available |            |

### 9.2. Other information

|                          |                            |
|--------------------------|----------------------------|
| <b>Molecular weight</b>  | 489.39                     |
| <b>Molecular formula</b> | <chem>C24H26Cl2N4O3</chem> |

9.2.1. Information with regards 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** None.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

### 10.4. Conditions to avoid

**Conditions to avoid** None known based on information supplied.

### 10.5. Incompatible materials

**Incompatible materials** None known based on information supplied.

**Hazardous decomposition products** None known based on information supplied.



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## 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**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available.  |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available.  |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available.  |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components). |

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

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

#### Numerical measures of toxicity

##### **Acute toxicity**

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

|                                  |   |
|----------------------------------|---|
| <b>Skin corrosion/irritation</b> | Based on available data, the classification criteria are not met. |
|----------------------------------|---|

|  |                           |
|--|---------------------------|
| <b>Serious eye damage/eye irritation</b> | No information available. |
|--|---------------------------|

|  |                           |
|--|---------------------------|
| <b>Respiratory or skin sensitisation</b> | No information available. |
|--|---------------------------|

|                               |                           |
|-------------------------------|---------------------------|
| <b>Germ cell mutagenicity</b> | No information available. |
|-------------------------------|---------------------------|

|                        |                           |
|------------------------|---------------------------|
| <b>Carcinogenicity</b> | No information available. |
|------------------------|---------------------------|



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**Reproductive toxicity** Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

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

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**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** Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.



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### 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** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

### IATA

14.1 UN number or ID number UN2811  
14.2 UN proper shipping name Toxic solid, organic, n.o.s. (Deacetyl ketoconazole)  
14.3 Transport hazard class(es) 6.1  
14.4 Packing group III  
    Description UN2811, Toxic solid, organic, n.o.s. (Deacetyl ketoconazole), 6.1, III  
14.5 Environmental hazards Yes  
14.6 Special precautions for user  
    Special Provisions A3, A5  
    ERG Code 6L

### IMDG

14.1 UN number or ID number UN2811  
14.2 UN proper shipping name Toxic solid, organic, n.o.s. (Deacetyl ketoconazole)  
14.3 Transport hazard class(es) 6.1  
14.4 Packing group III  
    Description UN2811, Toxic solid, organic, n.o.s., 6.1, III, Marine pollutant  
14.5 Marine pollutant P  
    Environmental hazards Yes  
14.6 Special precautions for user  
    Special Provisions 223, 274  
    EmS-No F-A, S-A No information available  
14.7 Maritime transport in bulk according to IMO instruments No information available



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### RID

|                                   |   |
|-----------------------------------|---|
| 14.1 UN number or ID number       | UN2811  |
| 14.2 UN proper shipping name      | Toxic solid, organic, n.o.s. (Deacetyl ketoconazole)  |
| 14.3 Transport hazard class(es)   | 6.1   |
| 14.4 Packing group                | III   |
| Description                       | UN2811, Toxic solid, organic, n.o.s. (Deacetyl ketoconazole), 6.1, III, Environmentally Hazardous |
| 14.5 Environmental hazards        | Yes   |
| 14.6 Special precautions for user |   |
| Special Provisions                | 274, 614  |
| Classification code               | T2  |

### ADR

|                                   |  |
|-----------------------------------|--|
| 14.1 UN number or ID number       | UN2811   |
| 14.2 UN proper shipping name      | Toxic solid, organic, n.o.s. (Deacetyl ketoconazole)   |
| 14.3 Transport hazard class(es)   | 6.1  |
| 14.4 Packing group                | III  |
| Description                       | UN2811, Toxic solid, organic, n.o.s. (Deacetyl ketoconazole), 6.1, III, (E), Environmentally Hazardous |
| 14.5 Environmental hazards        | Yes  |
| 14.6 Special precautions for user |  |
| Special Provisions                | 274, 614   |
| Classification code               | T2   |
| Tunnel restriction code           | (E)  |

## SECTION 15: Regulatory information

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

Water hazard class (WGK) strongly hazardous to water (WGK 3)

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy



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of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

### 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.

### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (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)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

### Persistent Organic Pollutants

Not applicable

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

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

### International Inventories

TSCA

Complies under research and development exemption or is regulated by a different government agency.

DSL/NDSL

EINECS/ELINCS

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status



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|       |  |
|-------|--|
| 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 |

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - 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 and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

### Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

## **SECTION 16: Other information**

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

#### **Full text of H-Statements referred to under section 3**

H301 - Toxic if swallowed

H360F - May damage fertility

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

#### **Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - Vapour                              | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 01-Dec-2022

Revision Number 1

## TRC-D198955-100MG - Deacetyl Ketoconazole

|                                   |                    |
|-----------------------------------|--------------------|
| Skin corrosion/irritation         | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation         | Calculation method |
| Skin sensitisation                | Calculation method |
| Mutagenicity                      | Calculation method |
| Carcinogenicity                   | Calculation method |
| STOT - single exposure            | Calculation method |
| STOT - repeated exposure          | Calculation method |
| Acute aquatic toxicity            | Calculation method |
| Chronic aquatic toxicity          | Calculation method |
| Aspiration hazard                 | Calculation method |
| Ozone                             | Calculation method |

### 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)  
EPA (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)  
Japan GHS Classification  
Australian 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)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

Revision date 01-Dec-2022

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

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liable for any damage or loss, howsoever arising, direct or otherwise.

**End of Safety Data Sheet**