

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

1.1. Product identifier

| | |
|---------------|--|
| Product form | : Substance |
| Trade name | : Ochratoxin A |
| EC-No. | : 206-143-7 |
| CAS-No. | : 303-47-9 |
| Product code | : CH-04-SX |
| Formula | : C ₂₀ H ₁₈ CINO ₆ |
| Synonyms | : N-[(3R)-(5-Chloro-8-hydroxy-3-methyl-1-oxo-7-isochroman-7-yl)carbonyl]-L-phenylalanine |
| Product group | : End product |

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

1.2.1. Relevant identified uses

| | |
|----------------------------------|---|
| Main use category | : Industrial use, Professional use |
| Industrial/Professional use spec | : Industrial For professional use only |
| Use of the substance/mixture | : Laboratory chemicals |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

aokin AG
Robert-Rössle-Str. 10
13125 Berlin - Deutschland
T +49 (0)30 94 89 21 60 (Monday-Friday, 8:00 am-4:00 pm) - F +49 (0)30 94 89 21 61
info@aokin.com - www.aokin.com

1.4. Emergency telephone number

| | |
|------------------|--|
| Emergency number | : Giftnotruf Berlin +49 30 30686700 (Beratung in Deutsch), 24 Stunden, 7 Tage/Woche; International: aokin AG +49-30-9489-2160 (Phone, Monday-Friday, 8:00 am-4:00 pm) |
|------------------|--|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 2 (Oral) H300
Carc. 2 H351

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H300 - Fatal if swallowed.
H351 - Suspected of causing cancer.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P330 - Rinse mouth.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2.3. Other hazards

Other hazards which do not result in classification : This substance / mixture does not contain any components of 0.1% or higher that are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

| Name | Product identifier | % |
|--------------|--|-------|
| Ochratoxin A | (CAS-No.) 303-47-9 (EC-No.) 206-143-7 | ≤ 100 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Consult a doctor. Show this safety data sheet to the doctor in attendance.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
. Ask for medical advice.
First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Transport to hospital immediately. Ask for medical advice.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Ask for medical advice. Rinse mouth out with water. Do not give an unconscious person anything to drink.

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

Symptoms/effects : The most important known symptoms and effects are described on the label (see 2.2) and / or in section 11.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO₂).

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon oxides. Nitrous gases (NO_x). Hydrogen chloride gas.

5.3. Advice for firefighters

Protection during firefighting : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Avoid breathing dust, vapours, mist, gas. Avoid creating or spreading dust. Avoid substance contact. Ensure adequate ventilation, observe emergency procedures, consult an expert.

6.1.2. For emergency responders

Protective equipment : Self-contained breathing apparatus.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

6.4. Reference to other sections

Information on exposure controls/personal protective equipment and on Instructions for disposal can be found in sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not breathe substance/ mixture. Provide adequate ventilation to minimize dust and/or vapour concentrations. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
- Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Apply preventive skin protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed in a well-ventilated, dry place. Store in cool place.
- Storage temperature : -20 °C
- Storage area : Storage class (TRGS 510): See section 15.1.2.

7.3. Specific end use(s)

Scientific research and development.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ochratoxin A (303-47-9)

| | |
|---------|--|
| Germany | Contains no substances with occupational exposure limits |
|---------|--|

8.2. Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Hand protection:

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact-material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min

Splash contact-material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min

Eye protection:

Wear closed safety glasses. EN 166. Use face shield for larger quantities.

Skin and body protection:

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Flame retardant antistatic protective clothing

Respiratory protection:

Required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
Recommended Filter type: Filter type P3
The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.
These measures have to be properly documented.



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Environmental exposure controls:

Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Solid |
| Appearance | : Powders. |
| Molecular mass | : 403.81 g/mol |
| Colour | : Light yellow. |
| Odour | : No data available |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : 169 °C |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under the specified storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

In the event of fire: see section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Fatal if swallowed.

Ochratoxin A (303-47-9)

LD50 oral rat

20 mg/kg Remarks: FCTXAV Food and Cosmetics Toxicology. (London, UK) Vol. 6, Pg. 479, 1968 (RTECS)

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| | |
|---|---|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Suspected of causing cancer. |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Potential adverse human health effects and symptoms | : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice. |
| IARC group | : 2B |

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Ochratoxin A (303-47-9)

| | |
|---------------------------|--|
| Results of PBT assessment | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
|---------------------------|--|

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|--|
| Waste treatment methods | : Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Product residues are to be disposed of in compliance with national and regional regulations dispose. Keep chemicals in original containers. Not with other waste mix. Uncleaned containers are to be treated according to the product. Pay attention to the waste policy 2008/98/EG. |
| Product/Packaging disposal recommendations | : Contaminated packaging to be disposed as unused product. |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR | IMDG | IATA |
|---|---|---|
| 14.1. UN number | | |
| 3462 | 3462 | 3462 |
| 14.2. UN proper shipping name | | |
| TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. ((-)-Ochratoxin A) | TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. ((-)-Ochratoxin A) | Toxins, extracted from living sources, solid, n.o.s. ((-)-Ochratoxin A) |
| 14.3. Transport hazard class(es) | | |
| 6.1 | 6.1 | 6.1 |
| | | |

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| ADR | IMDG | IATA |
|--|---|------------------------------------|
| 14.4. Packing group | | |
| II | II | II |
| 14.5. Environmental hazards | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No |
| No supplementary information available | | |

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

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

Ochratoxin A is not on the REACH Candidate List

Ochratoxin A is not on the REACH Annex XIV List

Seveso Information : Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : ACUTE TOXIC

15.1.2. National regulations

Germany

Regulatory reference : WGK 3, Highly hazardous to water
Storage class (LGK, TRGS 510) : LGK 6.1B - Non-combustible substances of acute toxicity, categories 1 and 2 / very toxic substances
Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of H- and EUH-statements:

| | |
|---------------------|-----------------------------------|
| Acute Tox. 2 (Oral) | Acute toxicity (oral), Category 2 |
| Carc. 2 | Carcinogenicity, Category 2 |
| H300 | Fatal if swallowed. |
| H351 | Suspected of causing cancer. |

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.