

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 6/21/2023 Version: 1.0

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

Product form : Substance Trade name Deoxynivalenol EC-No. 610-668-0 CAS-No. : 51481-10-8 Product code : CH-02-SX C15H20O6 Formula

Synonyms 3α , 7α , 15-Trihydroxy-12, 13-epoxytrichothec-9-en-8-one / Vomitoxin

Product group End product

Relevant identified uses 1.2.1.

Main use category : Industrial use, Professional use

Industrial/Professional use spec Industrial

For professional use only : Laboratory chemicals

Uses advised against 1.2.2.

Use of the substance/mixture

No additional information available

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SECTION 2: Hazards identification

Classification of the substance

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

Acute Tox. 2 (Oral) H300

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

Adverse physicochemical, human health and environmental effects

No additional information available

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

Hazard pictograms (CLP)



GHS06

Signal word (CLP) : Danger

Hazard statements (CLP) H300 - Fatal if swallowed.

Precautionary statements (CLP) P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

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

P405 - Store locked up.

P501 - Dispose of contents and container to an approved waste disposal plant.

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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

Substance type : Mono-constituent

Name	Product identifier	%
Deoxynivalenol	(CAS-No.) 51481-10-8 (EC-No.) 610-668-0	≤ 100

Full text of H-statements: see section 16

Not applicable

SECTION 4: First aid measures

First-aid measures general

Consult a doctor. Show this safety data sheet to the doctor in attendance. Remove person to fresh air and keep comfortable for breathing.

First-aid measures after inhalation First-aid measures after skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

First-aid measures after eye contact

Rinse eyes with water as a precaution. Remove contact lenses, if possible. Continue rinsing.

First-aid measures after ingestion

Drink water immediatly (max. 2 cups). Call a physician immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and

consult a doctor as quickly as possible.

Symptoms/effects

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

Indication of any imme

No additional information available

SECTION 5: Firefighting measures

Extinguishing medi

Suitable extinguishing media : Foam. Water, extinguishing powder. Carbon dioxide (CO2). Unsuitable extinguishing media : There are no extinguishing agent restrictions for this substance.

al hazards arising from the

Fire hazard Combustible.

: In case of fire: hazardous combustion gases or vapors possible. Reactivity in case of fire

Hazardous decomposition products in case of

: Carbon oxides.

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.

Other information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing

water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measure

Personal precautions, protect

6.1.1. For non-emergency personnel

Protective equipment

: Wear recommended personal protective equipment.

Avoid breathing dust. Avoid creating or spreading dust. Avoid substance contact. Ensure **Emergency procedures**

adequate ventilation, observe emergency procedures, consult an expert.

6.1.2. For emergency responders

Protective equipment : Self-contained breathing apparatus.

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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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

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.

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. Keep locked up or in an area

accessible only to qualified or authorized persons. Light sensitive.

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

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Deoxvi	nvaleno	1 (3) (40)	- I U-c

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

Eve 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 entrepeneur 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 Molecular mass 296.32 g/mol Colour : No data available Odour : No data available Odour threshold No data available No data available No data available Relative evaporation rate (butylacetate=1) 151 - 153 °C Melting point Freezing point No data available Boiling point No data available Flash point : No data available : No data available Auto-ignition temperature 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 : No data available Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic No data available Viscosity, dynamic No data available Explosive properties No data available Oxidising properties No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive limits

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

: No data 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

Light sensitive.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases.

10.6. Hazardous decomposition products

In the event of fire: see section 5.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Fatal if swallowed.

Deoxynivalenol (51481-10-8)	
LD50 oral rat	46 mg/kg Remarks: Gastrointestinal:Ulceration or bleeding from small intestine. Diarrhea (RTECS)

Skin corrosion/irritation : Skin - Guinea pig

Result: Mild skin irritation (Draize Test) Remarks: (RTECS)

Serious eye damage/irritation Not classified Respiratory or skin sensitisation Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified : Not classified Reproductive toxicity STOT-single exposure Not classified Not classified STOT-repeated exposure Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

RTECS: YD0167000

Gastrointestinal disturbance, Vomiting, Diarrhea, Nausea, Dizziness, Headache, Anorexia. To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

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

Deoxynivalenol (51481-10-8)	
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

: 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.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number		
2811	2811	2811

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ADR	IMDG	IATA
14.2. UN proper shipping name		
TOXIC SOLID, ORGANIC, N.O.S. (Deoxynivalenol)	TOXIC SOLID, ORGANIC, N.O.S. (Deoxynivalenol)	Toxic solid, organic, n.o.s. (Deoxynivalenol)
14.3. Transport hazard class(es)		
6.1	6.1	6.1
6	6	6
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

Tunnel restriction code (ADR) : D/E

- 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

Deoxynivalenol

is not on the REACH Candidate List

Deoxynivalenol

is not on the REACH Annex XIV List

Seveso Information : Seveso III: Directive 2012/18/EU of the European : ACUTE TOXIC

Parliament and of the Council on the control of major-accident hazards involving dangerous

substances.

15.1.2. National regulations

Germany

Regulatory reference : WGK 3, Highly hazardous to water

Storage class (LGK, TRGS 510) : LGK 6.1A - 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

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Full text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
H300	Fatal if swallowed.

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.

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