

Safety Data Sheet

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

Issue date: 6/20/2023 Version: 1.0

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

1.1. Product identifier

Product form : Substance Fumonisin B1 Trade name EC-No. 621-436-3 CAS-No. 116355-83-0 Product code CH-05B1-SX C34H59NO15 Formula Synonyms Macrofusine Product group End product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Industrial/Professional use spec : Industrial

For professional use only : Laboratory chemicals

Use of the substance/mixture 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. 3 (Oral) H301 Carc. 2 H351 Repr. 2 H361d STOT RE 2 H373

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)





GHS06

GHS

Signal word (CLP) : Danger

Hazard statements (CLP) : H301 - Toxic if swallowed.

H351 - Suspected of causing cancer.

H361d - Suspected of damaging the unborn child.

H373 - May cause damage to organs (kidneys, liver) through prolonged or repeated exposure.

Precautionary statements (CLP) : P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust.

P264 - Wash hands thoroughly after handling.

CH-05B1-SX EN (English) 1/7

Safety Data Sheet



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

P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.

P405 - Store locked up.

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	%
Fumonisin B1	(CAS-No.) 116355-83-0 (EC-No.) 621-436-3	≤ 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 measure

First-aid measures general

First-aid measures after inhalation

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

First-aid measures after eye contact

Rinse eyes with water as a precaution. Get medical advice/attention. 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.

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 Unsuitable extinguishing media : Water, extinguishing powder. Foam. Carbon dioxide (CO2).

: There are no extinguishing agent restrictions for this substance.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: Combustible.

Reactivity in case of fire

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

Hazardous decomposition products in case of fire

: Carbon oxides. Nitrous gases (NOx).

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.

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 measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

: Wear recommended personal protective equipment.

Safety Data Sheet



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

Emergency procedures

: Avoid breathing dust. 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

: 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. Use under laboratory hood.

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.

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. Protect from moisture.

Storage temperature

: 2-8°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

Fumon	isin B1	(116355	i-83-0)
-------	---------	---------	-----------------

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:

Safety Data Sheet



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

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.









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 Powders. Appearance Molecular mass 721.83 g/mol Colour light brown. Odour No data available Odour threshold No data available No data available Relative evaporation rate (butylacetate=1) No data available Melting point No data available Freezing point No data available Boiling point No data available No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available No data available Vapour pressure Relative vapour density at 20 °C No data available No data available Relative density Density 1.254 g/cm3 at 20 °C Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available No data available Viscosity, kinematic Viscosity, dynamic No data available No data available Explosive properties 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

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

Violent reactions possible with: Oxidizing agents

. Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines!.

Safety Data Sheet



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

10.4. Conditions to avoid

No additional information available

10.5 Incompatible materials

No additional information available

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 : Toxic if swallowed.

Fumonisin B1 (116355-83-0)	
LD50 oral rat	160 mg/kg male
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	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (kidneys, liver) through prolonged or repeated exposure.
Aspiration hazard	: Not classified

been thoroughly investigated.

SECTION 12: Ecological information

Potential adverse human health effects and

12.1. Toxicity

symptoms

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potentia

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Fumonisin B1 (116355-83-0)	
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.

To the best of our knowledge, the chemical, physical, and toxicological properties have not

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number		
2811	2811	2811

Safety Data Sheet



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

ADR	IMDG	IATA
14.2. UN proper shipping name		
TOXIC SOLID, ORGANIC, N.O.S. (Fumonisin B1)	TOXIC SOLID, ORGANIC, N.O.S. (Fumonisin B1)	Toxic solid, organic, n.o.s. (Fumonisin B1)
14.3. Transport hazard class(es)		
6.1	6.1	6.1
6	6	6
14.4. Packing group		
III	III	III
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) : 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

Fumonisin B1 is not on the REACH Candidate List Fumonisin B1 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 6.1C - Combustible substances of acute toxicity, category 3 / hazardous substances that

are toxic or produce chronic effects

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. 3 (Oral) Acute toxicity (oral), Category 3	
---	--

 CH-05B1-SX
 EN (English)
 6/7

Safety Data Sheet



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

Carc. 2	Carcinogenicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H301	Toxic if swallowed.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

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.