

Safety Data Sheet

According to 1907/2006/EC, Article 31 (REACH)
According to 1272/2008/EC (GHS/CLP)

Version No. 1

Date of creation / revision: 2019-04-18

Trade name: SENSI Spec Aflatoxin Total Rapid ELISA – Aflatoxin Standards

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

TRADE NAME:

Aflatoxin Total Rapid ELISA - Standards

ARTICLE NUMBER:

HU0030086

- 0) Microtiter Plate
- 1) Substrate Solution
- 2) Antibody Solution
- 3) Conjugate
- 4) Washing Solution (10x Concentrate)
- 5) Sample Diluent
- 6) Aflatoxin Standards
- 7) Stop Solution

CONCERNING SAFETY: THE MICROTITER PLATE (0) IS INOFFENSIVE AND FOR THIS REASON NOT PART OF THIS DOCUMENT. THE MIXTURES 1 – 5, DUE TO COINCIDENT CATEGORIZATION, ARE COMBINED AS A GROUP AND TREATED SEPARATELY. THE MIXTURE 7 (STOP SOLUTION) IS ALSO TREATED IN A SEPARATE SAFETY DATA SHEET. THE MIXTURES 6 (FUMONISIN STANDARDS) ARE THE OBJECT OF THIS SAFETY DATA SHEET AND IS DEALT WITH BELOW.

1.2. APPLICATION OF THE SUBSTANCE / THE PREPARATION

Aflatoxin Standards as part of the SENSISpec Aflatoxin Total Rapid ELISA.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

MANUFACTURER/SUPPLIER:

Eurofins Technologies Hungary Kft. Fóti út 56. 1047 Budapest Hungary

E-MAIL ADDRESS OF THE QUALIFIED PERSON:

technologies.hu@eurofins.com



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2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC OR DIRECTIVE 1999/45/EC:

T; Toxic

R23/24/25-39/23/24/25: Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of

very serious irreversible effects through inhalation, in contact with skin and if

swallowed.

CLASSIFICATION ACCORDING TO REGULATION (EC) No 1272/2008:

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.

STOT SE 1 H370 Causes damage to organs.

SPECIAL HAZARD NOTES FOR HUMAN AND ENVIRONMENT:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparation of the EU" in the latest valid version.

CLASSIFICATION SYSTEM:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2. LABEL ELEMENTS

LABELING ACCORDING TO REGULATION (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation

HAZARD PICTOGRAMS:



SIGNAL WORD:

Danger.

HAZARD STATEMENTS:

H301+H311+H331 Toxic if swallowed, in contact with or if inhaled.

H370 Causes damage to organs.



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PRECAUTIONARY STATEMENTS:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

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

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

P311 Call a POISON CENTER or doctor/physician.

2.3. OTHER HAZARDS

All chemicals are potentially dangerous. They should only be handled by specially trained personnel..

PBT: Not applicable. vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION: MIXTURES

DESCRIPTION:

Mixture with methanol

GEFÄHRLICHE INHALTSSTOFFE:

CAS-No.:	67+56-1	
DESCRIPTION:	Meth	nanol
EINECS:	200-6	659-6
INDEX NUMBER:	603-001-00-X	
ELEMENTAL FORMULA:	CH ₄ O	
MOLAR MASS:	32,04	
CONCENTRATION IN MIXTURE:	10%	
CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC OR DIRECTIVE 1999/45/EC:		T R23/24/25- R39/23/24/25
CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008:		Acute Tox. 3 STOT SE 1 H301 + H311 + H331, H370

ADDITIONAL INFORMATION:

For the wording of the listed risk phrases refer to section 16.



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4. FIRST AID MEASURES



4.1. DESCRIPTION OF FIRST AID MEASURES

GENERAL INFORMATION:

First aider: Pay attention for self protection! Remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

AFTER INHALATION:

Remove to fresh air. I breathing is difficult, give oxygen. Seek medical advice immediately.

AFTER SKIN CONTACT:

Immediately wash with water and soap and rinse thoroughly.

After massive or prolonged skin contact:

Medical advice absolutely required!

AFTER EYE CONTACT:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

AFTER SWALLOWING:

Remove to fresh air. Do not induce vomiting. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call a doctor immediately.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Irritations
- Dizziness
- Headache
- Impairment of vision
- Cramp
- Nausea
- Vomiting
- Unconsciousness

HAZARDS:

Danger of impaired breathing. Blindness.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No further relevant information available.



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5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING AGENTS:

Use fire extinguishing methods suitable to surrounding conditions. CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

FOR SAFETY REASONS UNSUITABLE EXTINGUISHING AGENTS:

For this mixture no limitations of extinguishing agents are given.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Ambient fire may liberate hazardous vapours.

In the event of fire development of hazardous combustion gases or vapours possible.

In case of fire, the following gases can be released: Carbon monoxide and carbon dioxide.

5.3. IMPORTANT ADVICE FOR FIREFIGHTERS

PROTECTIVE EQUIPMENT:

Wear self-contained respiratory protective device. Wear fully protective suit.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Keep away unprotected persons. Avoid eye or skin contact.

6.2. Environmental precautions

Do not allow to enter sewers/ground water or penetrate the soil.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb with liquid binding material (sand diatomite, acid binders, universal binders, sawdust).

Dispose of the material according to regulations.

Ensure adequate ventilation.

6.4. Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protection requirement.

See section 13 for disposal information.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Ensure good ventilation/exhaustion at the workplace



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INFORMATION ABOUT FIRE - AND EXPLOSION PROTECTION:



Keep ignition sources away – Do not smoke.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORAGE:

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:

Store at a cool place.

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:

Store away from foodstuffs.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

Keep container tighly closed.

RECOMMENDED STORAGE TEMPERATURE:

2-8°C

7.3. SPECIFIC END USE(S)

No further relevant information available.

8. Exposure controls/personal protection

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL FACILITIES:

No further data; see item 7.

8.1. CONTROL PARAMETERS

INGREDIENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT WORKPLACE:	
67-56-1 M ETHANOL	
AGW (GERMANY):	270 mg/m³, 200 mL/m³
	4 (II); DFG, EU, H, Y
IOELV (EU):	260 mg/m³, 200 mL/mL



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DIVER VALUES (INITIAL)	NOL).	
WORKERS		
LONG-TERM EXPOSITION — SYSTEMIC EFFECTS:		
DERMAL:	DNEL	40 mg/kg (Worker)
INHALATIV:	DNEL	260 mg/m³ (Worker)
LONG-TERM EXPOSITION	- LOCAL EFFECTS:	
INHALATIVE:	DNEL	260 mg/m³ (Worker)
SHORT-TERM EXPOSITION	N - SYSTEMIC EFFECTS:	
DERMAL:	DNEL	40 mg/kg (Worker)
INHALATIVE:	DNEL	260 mg/m³ (Worker)
SHORT-TERM EXPOSITION	N – LOCAL EFFECTS:	
INHALATIV:	DNEL	260 mg/m³ (Worker)
CONSUMER		
LONG-TERM EXPOSITION	- SYSTEMIC EFFECTS:	
ORAL:	DNEL	8 mg/kg (Consumer)
DERMAL:	DNEL	8 mg/kg (Consumer)
INHALATIVE:	DNEL	50 mg/m³ (Consumer)
LONG-TERM EXPOSITION	- LOCAL EFFECTS:	
INHALATIVE:	DNEL	50 mg/m³ (Consumer)
SHORT-TERM EXPOSITION	N - SYSTEMIC EFFECTS:	
ORAL:	DNEL	8 mg/kg (Consumer)
DERMAL:	DNEL	8 mg/kg (Consumer)
INHALATIVE:	DNEL	50 mg/m³ (Consumer)
SHORT-TERM EXPOSITION	N – LOCAL EFFECTS:	
INHALATIVE:	DNEL	50 mg/m³ (Consumer)



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PNEC VALUES (METHANOL):

	24 mg/kg (Soil)
	100 mg/L (Sewage treatment plant)
PNEC	15 mg/mL (Marine water)
	570 mg/kg (Fresh water sediment)
	154 mg/L (Fresh water)

ADDITIONAL INFORMATION:

The lists valid during the making were used as basis.

8.2. EXPOSURE CONTROLS

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL PROTECTIVE AND HYGIENIC MEASURES:

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Clean skin thoroughly immediately after handling the product.

INDIVIDUAL PROTECTION MEASURES:

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

RESPIRATORY PROTECTION:



Required when vapours/aerosols are generated.

Recommended filter type: Filter AX (colour code: brown)

When selecting your respiratory unit: Consider the "Rules for the use of respiratory protection equipment" (BGR190)

PROTECTION OF HANDS:





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Protective gloves – The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion

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and the degradation. MATERIAL OF GLOVES:

Butylcaoutchouc, thickness: ≥ 0,7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

PENETRATION TIME OF GLOVE MATERIAL:

Value for the permeation: Level ≥ 6

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

EYE PROTECTION:



Tightly sealed goggles.

BODY PROTECTION:



Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	Standards (10% Methanol)
GENERAL INFORMATION	
APPEARANCE:	
FORM:	fluid
CoLour:	red
Odour:	alcoholic
ODOUR THRESHOLD:	2000 ppm (Methanol)



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PROPERTY STANDARDS (10% METHANOL) PH-VALUE AT 25°C: **CHANGE IN CONDITION:** MELTING POINT/ MELTING No information available RANGE: **BOILING POINT/BOILING** 1. 65°C (Methanol) 2. 100°C (Water) RANGE: FLASH POINT: No information available FLAMMABILITY (SOLID, No information available GASEOUS): **IGNITION TEMPERATURE:** No information available DECOMPOSITION No information available **TEMPERATURE:** SELF-IGNITING: The mixture is not self-igniting DANGER OF EXPLOSION: The mixture does not present an explosion hazard **EXPLOSION LIMITS:** Lower: No information available UPPER: No information available **OXIDIZING PROPERTIES:** No information available ------**VAPOUR PRESSURE AT** 20 °C: **DENSITY:** DENSITY AT 20 °C: 0,99 g/cm³ **VAPOUR DENSITY:** No information available **EVAPORATION RATE:** No information available **SOLUBILITY IN / MISCIBILITY** Fully miscible WITH WATER: **PARTITION COEFFICIENT** No information available (N-OCTANOL/WATER): VISKOSITY: DYNAMIC: No information available KINEMATIC: No information available



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PROPERTY	Standards (10% Methanol)	
SOLVENT CONTENT:		
ORGANIC SOLVENTS:	10%	
WATER:	90%	

9.2. OTHER INFORMATION

No further relevant information available.

10. STABILITY UND REACTIVITY

10.1. REACTIVITY

No information available.

10.2. CHEMICAL STABILITY

THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED

No decomposition if used and stored according to specifications.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. CONDITIONS TO AVOID

No information available.

10.5. INCOMPATIBLE MATERIALS

No information available.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

No dangerous decomposition products known.

In case of fire see item 5.

11. TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

ACUTE TOXICITY:

LD/LC50 VALUES RELEVANT FOR CLASSIFICATION:

67-56-1 METHANOL		
ORAL:	LD0	143 mg/kg (human) (TOXNET)
	LD50	5628 mg/kg (rat) (IUCLID)
DERMAL:	LD50	15800 mg/kg (rabbit) (TOXNET)



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67-56-1 METHANOL		
INHALATIV:	LC50/ 4h	85,3 mg/L (rat) (IUCLID)

PRIMARY IRRTANT EFFECT:

ON THE SKIN:

Danger through skin adsorption.

Repeated exposure may cause skin dryness or cracking.

ON THE EYES:

Slightly Irritant.

AFTER INHALATION:

Absorption

Irritation symptoms in the respiratory tract.

SENSITIZATION:

No sensitizing effects known.

CMR EFFECTS:

GERM CELL MUTAGENICITY:

No information available.

CARCINOGENICITY:

No information available.

REPRODUCTIVE TOXICITY:

No information available.

ASPIRATION HAZARD:

No aspiration toxicity classification.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

The mixture is not classified as specific target organ toxicant, single exposure.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:

The mixture is not classified as specific target organ toxicant, repeated exposure.

ADDITIONAL TOXICOLOGICAL INFORMATION (METHANOL):

AFTER SWALLOWING:

Nausea

Vomiting

SYSTEMIC EFFECTS:

Blood pressure drop

Irritation

Inebriation

Headache

Dizziness

Impairment of vision

Spasms

Narcosis

Coma

Possibly respiratory arrest and heart attack.

Symptoms may be delayed.

Irreversible damage of the optical nerve.

Blinding



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Damage of liver and kidneys.

11.2. FURTHER INFORMATION

The product should be handled with the usual care when dealing with chemicals.

12. ECOLOGICAL INFORMATION

12.1. TOXICITY

AQUATIC TOXICITY (METHANOL):		
FISH TOXICITY		
LC50	15400 mg/l/96 h	
DAPHNIA TOXICITY		
EC5	>10000 mg/L/72 h (Entosiphon sulcatum) (Lit)	
EC50	>10000 mg/L/48 h (Daphnia magna) (IUCLID)	
ALGEAL TOXICITY		
IC5	8000 mg/L/8 d (Scenedesmus quadricauda) (IUCLID)	
BACTERIAL TOXICITY		
EC5	6600 mg/L/16 h (Pseudomonas putida) (IUCLID)	

12.2. PERSISTENCE AND DEGRADABILITY

Easily biodegradable.

12.3. BIOACCUMULATIVE POTENTIAL

No further relevant information available.

12.4. MOBILITY IN SOIL

No further relevant information available.

ECOTOXICAL EFFECTS:

REMARK:

Water hazard class 1 (German Regulation) (Self-assessment) - Do not allow to enter waters, sewers or soil.

12.5. RESULTS OF PBT AND VPVB ASSESSMENT

PBT:

Not applicable.

vPvB:

Not applicable.

12.6. OTHER ADVERSE EFFECTS



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No further relevant information available.

13. DISPOSAL CONSIDERATIONS

RECOMMENDATION:

This material and its container must be disposed of as hazardous waste.

The disposal is regionally differently regulated therefore the kind of disposal is to be inquired at the responsible authorities.

UNCLEANED PACKAGING:

RECOMMENDATION:

Die Disposal according to official regulations.

RECOMMENDED CLEANSING AGENTS:

Water, if necessary together with cleansing agents.

14. TRANSPORT INFORMATION

14.1. UN-NUMBER

ADR, IMDG, IATA:

UN2810

14.2. UN PROPER SHIPPING NAME

ADR:

"2810 TOXIC LIQUID, ORGANIC, N.A.G. (METHANOL)"

IMDG, IATA:

"TOXIC LIQUID, ORGANIC, N.O.S. (METHANOL)

14.3. TRANSPORT HAZARD CLASSES

CLASS: 6.1. Toxic substances LABEL: 6.1



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IMDG, IATA:



CLASS:

6.1. Toxic substances

LABEL:

6.1

14.4. PACKING GROUP

ADR, IMDG, IATA:

Ш

14.5. Environmental hazards

MARINE POLLUTANT:

No.

14.6. SPECIAL PRECAUTIONS FOR USER

DANGER CODE (KEMLER):

ണ

EMS-NUMBER:

F-A, S-A

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

Not applicable.

TRANSPORT/ADDITIONAL INFORMATION (ADR)	
LIMITED QUANTITIES (LQ)	1 L
TRANSPORT CATEGORY	2
TUNNEL RESTRICTION CODE	E

UN "MODEL REGULATION":

2810 TOXIC LIQUID, ORGANIC, 6.1, II.

15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCES OR MIXTURE



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NATIONAL REGULATIONS:

INFORMATION ABOUT LIMITATION OF USE:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning juveniles must be observed.

WATER HAZARD CLASS:

Water hazard class 1 (Self assessment): slightly hazardous for water.

TECHNICAL INSTRUCTIONS AIR:

CLASS	SHARE IN %
WATER	90
I	10

15.2. CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment has not been carried out

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

RELEVANTE PHRASES:

PHRASE	DEFINITION
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

DEPARTMENT ISSUING MSDS:

Department R & D

CONTACT:

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ABBREVIATIONS AND ACRONYMS:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LD50: Letale Dose, 50 percent (Not relevant for classification)

LC50: Letale concentration, 50 percent (Not relevant for classification)

^{*}Data compared to the previous version altered.