

SAFETY DATA SHEET

This Safety Data Sheet (SDS) has been prepared in accordance with GB/T16483-2008. Classifications of this product and its components are in accordance with GB13690-2009.

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

1.1 Product Identifier

Product Name

Aflatoxin M1 ELISA

Catalogue Number

KIT5001

Helica[®] ELISA kits – Contain various components of low risk to a trained operator.

Components:

- Coated plates
- Standards
- Conjugate
- Assay diluent
- Stop solution
- Substrate buffer
- Wash buffer

1.2 Use of the substance/preparation

A competitive enzyme-linked immunoassay intended for the quantitative detection of Aflatoxin M1 in milk, milk powder, and cheese.

1.3. Details of the supplier of the safety data sheet

BioChek (UK) Limited

Unit 5 Kings Ride Park

Kings Ride

Ascot

Berkshire

SL5 8BP

Tel: +0044 (0)208 893 3000 (operating hours 09.00-17.00 GMT)

1.4. Emergency Telephone

Tel: +0044 (0)208 893 3000 (operating hours 09.00-17.00 GMT)

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

Outer kit

Classification according to GB13690-2009: Skin Irr 2: H315; Skin Sens 1A: H317; Eye Irr 2: H319;
Aqu Chron 2: H411

Most important adverse effects: Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

Coated plate and conjugate

Classification according to GB13690-2009: Skin Sens 1A: H317; Aqu Chron 2: H411

Most important adverse effects: May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

Assay diluent

Classification according to GB13690-2009: Skin Irr 2: H315; Skin Sens 1A: H317; Eye Irr 2: H319;
Aqu Chron 2: H411

Most important adverse effects: Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Toxic to aquatic life with long lasting effects.

Substrate buffer, wash buffer and stop solution

Classification according to GB13690-2009: Not classified.

Most important adverse effects: Not applicable.

2.2 Label Elements

Label elements according to GB13690-2009

Outer kit

Pictogram:

GHS07, GHS09



Signal word:

Warning

Hazard statement(s):

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s):	P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye protection/ face protection. P391 Collect spillage. P501 Dispose of contents/container in accordance with local/regional/national/international regulation. P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P352: IF ON SKIN: Wash with soap and water. P333 + P313: If skin irritation or a rash occurs: Get medical advice/attention.
Other Hazards:	This substance/ mixture contains no components considered to be either persistent, bioaccumulative and toxic, or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Coated plate and conjugate

Pictogram:

GHS07, GHS09



Signal word:

Warning

Hazard statement(s):

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Assay diluent

Pictogram:

GHS07, GHS09



Signal word:

Warning

Hazard statement(s):

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Substrate buffer, wash buffer and stop solution

None.

2.3 Other hazards

None reasonably foreseeable.

SECTION 3: Composition/information on ingredients

Coated plate

Component	CAS-No.	EC-No.	Concentration	Classification
Sodium carbonate	497-19-8	207-838-8	≤1.0%	Eye Dam/Irr (Category 2); H319
Proclin 300 / Isothiazolinone / MIT / Kathon CG	96118-96-6	611-341-5	≤0.1%	Acute tox Oral (Category 4); Acute tox Dermal (Category 2); Acute tox Inhal (Category 2); Skin Corr/Irr (Category 1C); Eye Damage (Category 1); Skin Sens (Category 1A); Aqu Acute (Category 1); Aqu Chronic (Category 1); H302, H310, H314, H317, H318, H330, H400 (M-factor 100), H410 (M-factor 100)
Potassium chloride	7440-09-7	231-119-8	≤0.1%	Skin Corr/Irr (Category 1C); Eye Damage (Category 1); Water-React (Category 1); H260, H314, H318

Standards

Component	CAS-No.	EC-No.	Concentration	Classification
Proclin 300 / Isothiazolinone / MIT / Kathon CG	96118-96-6	611-341-5	≤0.1%	Acute tox Oral (Category 4); Acute tox Dermal (Category 2); Acute tox Inhal (Category 2); Skin Corr/Irr (Category 1C); Eye Damage (Category 1); Skin Sens (Category 1A); Aqu Acute (Category 1); Aqu Chronic (Category 1); H302, H310, H314, H317, H318, H330, H400 (M-factor 100), H410 (M-factor 100)

Conjugate

Component	CAS-No.	EC-No.	Concentration	Classification
Green food dye	2353-45-9	219-091-5	<1.0%	STOT-SE 3, Resp Irrit (Category 3); H335
Proclin 300 / Isothiazolinone / MIT / Kathon CG	96118-96-6	611-341-5	≤0.1%	Acute tox Oral (Category 4); Acute tox Dermal (Category 2); Acute tox Inhal (Category 2); Skin Corr/Irr (Category 1C); Eye Damage (Category 1); Skin Sens (Category 1A); Aqu Acute (Category 1); Aqu Chronic (Category 1); H302, H310, H314, H317, H318, H330, H400 (M-factor 100), H410 (M-factor 100)

Assay diluent

Component	CAS-No.	EC-No.	Concentration	Classification
Proclin 300 / Isothiazolinone / MIT / Kathon CG	96118-96-6	611-341-5	≤0.1%	Acute tox Oral (Category 4); Acute tox Dermal (Category 2); Acute tox Inhal (Category 2); Skin Corr/Irr (Category 1C); Eye Damage (Category 1); Skin Sens (Category 1A); Aqu Acute (Category 1); Aqu Chronic (Category 1); H302, H310, H314, H317, H318, H330, H400 (M-factor 100), H410 (M-factor 100)

Stop solution

Component	CAS-No.	EC-No.	Concentration	Classification
Phosphoric acid 85%	7664-38-2	231-633-2	1-5%	Skin Corr/Irr (Category 1B); Eye Damage (Category 1); H314, H318

SECTION 4: First Aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry powder, or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides, Sodium oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (see section 8).

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter the drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage temperature 2-8°C.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Phosphoric acid 85%	7664-38-2	LTEL	1.0 mg/m ³	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
	Remarks	Identifies the possibility of significant uptake through the skin. Indicative.		
		STEL	2.0 mg/m ³	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
		Identifies the possibility of significant uptake through the skin. Indicative.		
		LT 8h TWA	1.0 mg/m ³	UK. EH40 WEL – Workplace Exposure Limits
		ST 15m ref	2.0 mg/m ³	UK. EH40 WEL – Workplace 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 the workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique 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. The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

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

Respiratory protection

While handling according to the intended use no respiratory protection is necessary.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Coated plates	Standards	Conjugate	Assay diluent	Stop solution	Substrate buffer	Wash buffer
Physical State	Plastic plate	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
Colour	Clear / white	Cloudy white	Green	Clear	Clear	Clear	Clear
Odour	No data available	No data available	No data available	No data available	No data available	No data available	No data available
pH	Not applicable	No data available	No data available	No data available	No data available	No data available	No data available
Boiling Point	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Freezing point	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Flammability	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Upper/ lower explosion limit/ flammability limit	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Flash point	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Auto-ignition temperature	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Decomposition temperature	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Viscosity	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Solubility	Insoluble	Soluble	Soluble	Soluble	Soluble	Soluble	Soluble
Partition coefficient n-octanol/ water	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Vapour pressure	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Density	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Relative vapour density	No data available	No data available	No data available	No data available	No data available	No data available	No data available
Particle characteristics	No data available	No data available	No data available	No data available	No data available	No data available	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable until expiry date under storage conditions detailed on labels.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

Coated plates, Standards, Conjugate, Substrate buffer, Wash buffer and Stop solution

No data available

Assay diluent

Prolonged contact may cause skin irritation with local redness. Symptoms may include pain, severe local redness and swelling. May cause more severe response if skin is abraded (scratched or cut).

Serious eye damage/eye irritation

Coated plates, Standards, Conjugate, Substrate buffer, Wash buffer and Stop solution

No data available

Assay diluent

May cause eye irritation. May cause corneal injury.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Additional information

RTECS: Not available

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 data available

12.2 Persistence and biodegradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

These substances/mixtures contain 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 effect**Coated plates, Standards, Conjugate and Assay diluent**

Contains Proclin 300/Isothiazolinone/MIT/Kathon CG (CAS 96118-96-6) which is very toxic to aquatic life with long lasting effects.

Stop solution, Substrate buffer and Wash buffer

None reported

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal techniques. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional, or national/federal regulations.

SECTION 14: Transport information

14.1 UN number

UN3316

14.2 UN proper shipping name

Chemical test kit

14.3 Transport hazard classes

9

14.4 Packaging group

III

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Tunnel restriction code E

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of GB/T16483-2008 and GB13690-2009.

15.2 Chemical safety assessment

No Chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations:

ATE	Acute toxicity estimate
IARC	International Agency for Research on Cancer
LTEL	Long-term exposure limit
OEL	Occupational exposure limit
PBT	Persistent, bioaccumulative and toxic
RTECS	The Registry of Toxic Effects of Chemical Substances
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very persistent and very bioaccumulative

H-statements:

H260	In contact with water releases flammable gases which may ignite spontaneously.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long-lasting effects.
H411	Toxic to aquatic life with long-lasting effects.

Additional information

Not applicable.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all-inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE".