

Safety Data Sheet

According to 1907/2006/EC, Article 31
(REACH)

Version Nr. 2

Trade name: SENSISpec Soy ELISA – Stop Solution

Date of creation / revision: 2020-08-11

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

1.1. PRODUCT IDENTIFIER

TRADE NAME:

SENSISpec Soy ELISA – Stop Solution

ARTICLE NUMBER:

HU0030023

COMPONENTS:

- 0) *Microtiter Plate*
- 1) *Substrate Solution*
- 2) *Conjugate*
- 3) *Washing Solution (10x Concentrate)*
- 4) *Extraction and Sample Dilution Buffer (10x Concentrate)*
- 5) *STI Standards*
- 6) *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 6 (STOP SOLUTION) IS THE OBJECT OF THIS SAFETY DATA SHEET AND IS DEALT WITH BELOW.

1.2. APPLICATION OF THE SUBSTANCE / THE PREPARATION

Stop Solution as part of the SENSISpec Soy ELISA.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

MANUFACTURER/SUPPLIER:

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

E-MAIL-ADDRESS OF THE QUALIFIED PERSON:

technologies.hu@eurofins.com

1.4. EMERGENCY TELEPHONE NUMBER

In case of further inquiry please contact the telephone number +49(0)561 491742-0 (technical service, business hours 8 a.m. to 4:30 p.m.) or the local emergency center or any other adequate institution.

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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:

Xi, Irritant

R36/38: Irritating to eyes and skin

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

INFORMATION CONCERNING PARTICULAR HAZARDS FOR HUMAN AND ENVIRONMENT:

The mixture has to be labelled due to the calculation procedure of the „General Classification guideline for preparations 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

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

The product is classified and labelled according to the CLP regulation

HAZARD PICTOGRAM:



GHS05

SIGNAL WORD:

Warning.

HAZARD STATEMENTS:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362 Take off contaminated clothing and wash before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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P337+P313 If eye irritation persists: Get medical advice/attention.

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:

Aqueous solution.

DANGEROUS COMPONENTS:

CAS No.:	7664-93-9
DESCRIPTION:	Sulfuric acid
EINECS:	231-639-5
INDEX NUMBER:	016-020-00-8
ELEMENTAL FORMULA:	H ₂ SO ₄
MOLAR MASS:	98,08
CONCENTRATION IN MIXTURE:	0.5 M
CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC OR DIRECTIVE 1999/45/EC:	 C R35
CLASSIFICATION ACCORDING TO REGULATION (EC) No 1272/2008:	 Met Corr. 1 Skin Corr. 1A H290, H314

ADDITIONAL INFORMATION:

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

4. FIRST AID MEASURES



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4.1. DESCRIPTION OF FIRST AID MEASURES

GENERAL INFORMATION:

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

AFTER INHALATION:

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

AFTER SKIN CONTACT:

Immediately rinse with water. After massive or prolonged skin contact: Seek medical advice.

AFTER EYE CONTACT:

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

AFTER SWALLOWING:

Rinse out mouth and drink a glass of water. Do not induce vomiting. If there is any trouble seek medical help.

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

No further relevant information available.

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

No further relevant information available.

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: Sulphur dioxide, 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.

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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. VERWEIS AUF ANDERE ABSCHNITTE

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

No special precautions are necessary if used correctly.

INFORMATION ABOUT FIRE – AND EXPLOSION PROTECTION:

No special measures required.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORAGE:

REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:

Store at a cool place.
Do not store in corrodible metal.
Provide acid-resistant floor.

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:

Store away from foodstuffs.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

None.

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:

7664-93-9 SULPHURIC ACID

AGW (GERMANY):

0.1 E mg/m³

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INGREDIENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT WORKPLACE:

	1 (I); DFG, EU, H, Y
IOELV (EU):	0.05 mg/m ³

DNEL VALUES (SULPHURIC ACID):

WORKERS		
LONG-TERM EXPOSITION – LOCAL EFFECTS:		
INHALATIV:	DNEL	0.05 mg/m ³ (worker)
SHORT-TERM EXPOSITION – LOCAL EFFECTS:		
INHALATIV:	DNEL	0.1mg/m ³ (worker)

PNEC VALUES (SULPHURIC ACID):

PNEC	8.8 mg/L (sewage treatment plant)
	0.002 mg/kg (seawater sediment)
	0.25 mg/L (seawater)
	0.002 mg/kg (freshwater sediment)
	0.0025 mg/L (freshwater)

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.

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:



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Required when vapours/aerosols are generated.

PROTECTION OF HANDS:

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 and the degradation.

MATERIAL OF GLOVES:

Nitrile, thickness: ≥ 0.11 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. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

PENETRATION TIME OF GLOVE MATERIAL:

Value of 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

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PROPERTY	STOP SOLUTION (0.5 M SULPHURIC ACID)
GENERAL INFORMATION	
APPEARANCE:	
FORM:	fluid
COLOUR:	colourless
ODOUR:	odourless
ODOUR THRESHOLD:	No information available
PH-VALUE AT 25°C:	~ 0,6
CHANGE IN CONDITION:	
MELTING POINT/ MELTING RANGE:	No information available
BOILING POINT/BOILING RANGE:	100°C
FLASH POINT:	No information available
FLAMMABILITY (SOLID, GASEOUS)	No information available
IGNITION TEMPERATURE:	No information available
DECOMPOSITION TEMPERATURE:	No information available
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:	23 hPa
DENSITY:	
DENSITY AT 20 °C:	1,03 g/cm ³
VAPOUR DENSITY:	No information available
EVAPORATION RATE:	No information available

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PROPERTY	STOP SOLUTION (0.5 M SULPHURIC ACID)
SOLUBILITY IN / MISCIBILITY WITH WATER:	Fully miscible
PARTITION COEFFICIENT (N-OCTANOL/WATER)	No information available
VISKOSITY:	
DYNAMIC:	No information available
KINEMATIC:	No information available

9.2. OTHER INFORMATION

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

See section 10.3.

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

Reacts with alkali (lyes).

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:

Quantitative data on the toxicity of this product are not available.

PRIMARY IRRITANT EFFECT:

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ON THE SKIN:

Irritant to skin and mucous membranes.

ON THE EYES:

Irritant.

AFTER INHALATION:

Irritant to skin and mucous membranes.

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:

We have no description of any toxicological symptoms.

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:

Quantitative data on the ecological effect of this product are not available.

12.2. PERSISTENCE AND DEGRADABILITY

No further relevant information available.

12.3. BIOACCUMULATIVE POTENTIAL

No further relevant information available.

12.4. MOBILITY IN SOIL

No further relevant information available.

ECOTOXICAL EFFECTS:

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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

No further relevant information available.

13. DISPOSAL CONSIDERATIONS**13.1. WASTE TREATMENT METHODS****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:**

UN2796

14.2. UN PROPER SHIPPING NAME**ADR:**

„2796 Battery fluid, acid or Sulphuric acid with not more than 51 percent acid, N.O.S.“

IMDG, IATA:

„SULFURIC ACID, N.O.S.“

14.3. TRANSPORT HAZARD CLASS(ES)**ADR:**

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ADR:

CLASS:
8 Corrosive substances

LABEL:
8

IMDG, IATA:

CLASS:
8 Corrosive Substances

LABEL:
8

14.4. PACKING GROUP

ADR, IMDG, IATA:

II

14.5. ENVIRONMENTAL HAZARDS

MARINE POLLUTANT:

No.

14.6. SPECIAL PRECAUTIONS FOR USER

Warning: Corrosive substances.

DANGER CODE (KEMLER):

80

EMS NUMBER:

F-A, S-B

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)	5 L
TRANSPORT CATEGORY	3
TUNNEL RESTRICTION CODE	E

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UN „MODEL REGULATION“:

2796 Battery fluid, acid or Sulphuric acid with not more than 51 percent acid, N.O.S., 8, II

15. REGULATORY INFORMATION

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

NATIONAL REGULATIONS:

INFORMATION ABOUT LIMITATION OF USE:

Employment restrictions concerning juveniles must be observed.

WATER HAZARD CLASS:

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

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.

RELEVANT PHRASES:

PHRASE	DEFINITION
H315	Causes skin irritation.
H319	Causes serious eye irritation.
R36/38	Irritating to eyes and skin.

DEPARTMENT ISSUING MSDS:

Department R & D

CONTACT:

technologies.hu@eurofins.com

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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.**