

# Safety Data Sheet

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

Version Nr. 2

Trade name: SENSISpec Zearalenone Rapid ELISA – Zearalenone Standards

Date of creation / revision: 2019-03-08

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

### 1.1. PRODUCT IDENTIFIER

**TRADE NAME:**

SENSISpec Zearalenone RAPID ELISA – Standards

**ARTICLE NUMBER:**

HU0030087

- 0) *Microtiter Plate*
- 1) *Substrate Solution*
- 2) *Antibody Solution*
- 3) *Conjugate*
- 4) *Washing Solution (10x Concentrate)*
- 5) *Sample Diluent*
- 6) Zearalenone 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 (ZEARALENONE STANDARDS) ARE THE OBJECT OF THIS SAFETY DATA SHEET AND IS DEALT WITH BELOW.**

### 1.2. APPLICATION OF THE SUBSTANCE / THE PREPARATION

Zearalenone Standards as part of the SENSISpec Zearalenone 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 edition 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:



GHS06

GHS08

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:	Methanol	
EINECS:	200-659-6	
INDEX NUMBER:	603-001-00-X	
ELEMENTAL FORMULA:	CH <sub>4</sub> O	
MOLAR MASS:	32,04	
CONCENTRATION IN MIXTURE:	35%	
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. If 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. CO<sub>2</sub>, 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 RECEPTABLES:

Store at a cool place.

#### INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:

Store away from foodstuffs.

#### FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

Keep container tightly 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 METHANOL

#### AGW (GERMANY):

270 mg/m<sup>3</sup>, 200 mL/m<sup>3</sup>

4 (II); DFG, EU, H, Y

#### IOELV (EU):


260 mg/m<sup>3</sup>, 200 mL/mL

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**DNEL VALUES (METHANOL):**

<b>WORKERS</b>		
<b>LONG-TERM EXPOSITION – SYSTEMIC EFFECTS:</b>		
<b>DERMAL:</b>	DNEL	40 mg/kg (Worker)
<b>INHALATIV:</b>	DNEL	260 mg/m <sup>3</sup> (Worker)
<b>LONG-TERM EXPOSITION – LOCAL EFFECTS:</b>		
<b>INHALATIV:</b>	DNEL	260 mg/m <sup>3</sup> (Worker)
<b>SHORT-TERM EXPOSITION – SYSTEMIC EFFECTS:</b>		
<b>DERMAL:</b>	DNEL	40 mg/kg (Worker)
<b>INHALATIV:</b>	DNEL	260 mg/m <sup>3</sup> (Worker)
<b>SHORT-TERM EXPOSITION – LOCAL EFFECTS:</b>		
<b>INHALATIV:</b>	DNEL	260 mg/m <sup>3</sup> (Worker)

<b>CONSUMER</b>		
<b>LONG-TERM EXPOSITION – SYSTEMIC EFFECTS:</b>		
<b>ORAL:</b>	DNEL	8 mg/kg (Consumer)
<b>DERMAL:</b>	DNEL	8 mg/kg (Consumer)
<b>INHALATIV:</b>	DNEL	50 mg/m <sup>3</sup> (Consumer)
<b>LONG-TERM EXPOSITION – LOCAL EFFECTS:</b>		
<b>INHALATIV:</b>	DNEL	50 mg/m <sup>3</sup> (Consumer)
<b>SHORT-TERM EXPOSITION – SYSTEMIC EFFECTS:</b>		
<b>ORAL:</b>	DNEL	8 mg/kg (Consumer)
<b>DERMAL:</b>	DNEL	8 mg/kg (Consumer)
<b>INHALATIV:</b>	DNEL	50 mg/m <sup>3</sup> (Consumer)
<b>SHORT-TERM EXPOSITION – LOCAL EFFECTS:</b>		
<b>INHALATIV:</b>	DNEL	50 mg/m <sup>3</sup> (Consumer)

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#### **PNEC VALUES (METHANOL):**

<b>PNEC</b>	24 mg/kg (Soil)
	100 mg/L (Sewage treatment plant)
	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 and the degradation.

**MATERIAL OF GLOVES:**

Butylcaoutchouc, thickness:  $\geq 0,7$  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  $\geq 6$

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 (35% METHANOL)
<b>GENERAL INFORMATION</b>	
<b>APPEARANCE:</b>	
<b>FORM:</b>	fluid
<b>COLOUR:</b>	red
<b>ODOUR:</b>	alcoholic
<b>ODOUR THRESHOLD:</b>	2000 ppm (Methanol)

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PROPERTY	STANDARDS (35% METHANOL)
PH-VALUE AT 25°C:	6 - 8
CHANGE IN CONDITION :	
MELTING POINT/ MELTING RANGE:	No information available
BOILING POINT/BOILING RANGE:	1. 65°C (Methanol) 2. 100°C (Water)
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:	0,99 g/cm <sup>3</sup>
VAPOUR DENSITY:	No information available
EVAPORATION RATE:	No information available
SOLUBILITY IN / MISCIBILITY WITH WATER:	Fully miscible
PARTITION COEFFICIENT (N-OCTANOL/WATER):	No information available
VISCOSITY:	
DYNAMIC:	No information available
KINEMATIC:	No information available

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PROPERTY	STANDARDS (35% METHANOL)
<b>SOLVENT CONTENT:</b>	
<b>ORGANIC SOLVENTS:</b>	35%
<b>WATER:</b>	65%

## 9.2. OTHER INFORMATION

No further relevant information available.

## 10. STABILITY AND 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		
<b>ORAL:</b>	LD0	143 mg/kg (human) (TOXNET)
	LD50	5628 mg/kg (rat) (IUCLID)
<b>DERMAL:</b>	LD50	15800 mg/kg (rabbit) (TOXNET)

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## 67-56-1 METHANOL

**INHALATIV:**

LC50/ 4h

85,3 mg/L (rat) (IUCLID)

### PRIMARY IRRITANT 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  
Possible 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

<b>AQUATIC TOXICITY (METHANOL):</b>	
<b>FISH TOXICITY</b>	
<b>LC50</b>	15400 mg/l/96 h
<b>DAPHNIA TOXICITY</b>	
<b>EC5</b>	>10000 mg/L/72 h (Entosiphon sulcatum) (Lit)
<b>EC50</b>	>10000 mg/L/48 h (Daphnia magna) (IUCLID)
<b>ALGAL TOXICITY</b>	
<b>IC5</b>	8000 mg/L/8 d (Scenedesmus quadricauda) (IUCLID)
<b>BACTERIAL TOXICITY</b>	
<b>EC5</b>	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. TRANSPORTGEFAHRENKLASSEN

**ADR:**



**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:  
II

## 14.5. ENVIRONMENTAL HAZARDS

MARINE POLLUTANT:  
No.

## 14.6. SPECIAL PRECAUTIONS FOR USER

DANGER CODE (KEMLER):  
60

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.

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## 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.

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	65
I	35

### 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 SÄTZE:

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:

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)