

## SAFETY DATA SHEET

Revision date	Replaces	First edition	Art. no	Issued by	Language	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB / CB	ENG	1 of 12

## M65 EpiRat™ ELISA

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

<b>1.1 PRODUCT IDENTIFIER</b>	M65 EpiRat™ ELISA
<b>Item number</b>	10060
<b>1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST</b>	The ELISA kits are medical devices and are not covered by the CLP-regulation; EU 1272/2008 (Classification & Labelling of Chemical Products). However, relevant information of the products is provided in this safety data sheet.
<b>1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET</b>	VLVbio AB Hästholmsvägen 32 131 30 Nacka Sweden  Phone +46 (0)8 122 053 00, Email: <a href="mailto:info@vlvbio.com">info@vlvbio.com</a> ; <a href="http://www.vlvbio.com">www.vlvbio.com</a> For questions regarding the safety data sheet, please contact: <a href="mailto:info@vlvbio.com">info@vlvbio.com</a>
<b>1.4 EMERGENCY TELEPHONE NUMBER</b>	National Poisons Information Centre General public: Call (01) 809 2166, 8am to 10 pm, 7 days a week.

## SECTION 2. HAZARDS IDENTIFICATION

## 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

## Health hazards:

*The component 5 (Stop solution) is classified as hazardous to health according to Regulation (EC) No 1272/2008.*

**Causes skin irritation (Skin Irrit. 2; H315).**

**Causes serious eye irritation (Eye Irrit. 2; H319).**

*The components 1-4 (M65 HRP Conjugate, M65 Conjugate Dilution Buffer, Standard solutions A - E and TMB Substrate) are not classified as hazardous to health according to Regulation (EC) No 1272/2008.*

## Environmental hazards

*None of the components in M65EpiRat ELISA kit are classified as hazardous to the environment.*

## Physical hazards

*None of the components in M65EpiRat ELISA kit are classified for physical hazards.*

## 2.2 LABEL ELEMENTS (only applies to the component 5 - Stop solution)

## Hazard Pictograms

Revision date	Replaces	First edition	Art. no	Issued by	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB	2 of 12

## M65 EpiRat™ ELISA



### Signal word

WARNING

**Contains: Sulphuric acid.**

### Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

### Precautionary statements

P280 Wear protective gloves/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

### Other labelling

EUH208 - Contains Methyl-4-isothiazolin-3-one. May produce an allergic reaction.

The labelling is recommended on the following kits: *M65 HRP Conjugate, M65 Conjugate Dilution Buffer, Standard A-E.*

### Other regulations

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### Other information

The product does not contain any SVHC-substances (= Substance of Very High Concern)  $\geq 0,1\%$  from the candidate list of EU.

The components do not contain any substances which fulfills the criteria for PBT and vPvB according to annex XIII to the regulation (EG) nr 1907/2006 (REACH).

No substances have been identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations  $\geq 0.1\%$  (w/w).

### 2.3 OTHER HAZARDS

No other hazards are related to the product.

# SAFETY DATA SHEET

Revision date	Replaces	First edition	Art. no	Issued by	Language	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB / CB	ENG	3 of 12

## M65 EpiRat™ ELISA

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 SUBSTANCES

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#### 3.2 MIXTURE

##### Description of relevant components of the kit.

Medical device product - ELISA kit for Research Use Only.

Separate kit-component	Substance	EC No.	CAS No.	REACH No. <sup>2</sup>	Conc. w/w %	Classification (CLP) <sup>1</sup>
1. <b>M65 HRP Conjugate</b>	5-Chloro-2-methyl-4-isothiazolin-3-one,	247-500-7	26172-55-4	-	≥ 0.00055 – 0.00063	Acute Tox. 2 H300 <sup>b</sup> Acute Tox. 2 H310 <sup>b</sup> Acute Tox. 2 H330 <sup>b</sup> Skin Corr. 1B H314 <sup>b</sup> Skin Sens. 1 H317 <sup>b</sup> Eye Dam. 1 H318 <sup>b</sup> Aquatic Acute 1 H400 <sup>b</sup>
	Methyl-4-isothiazolin-3-one	220-239-6	2682-20-4	-	≥ 0.00015 – 0.00023	Acute Tox. 3 H301 <sup>a</sup> Acute Tox. 3 H311 <sup>a</sup> Skin Corr. 1B H314 <sup>a</sup> Eye Dam. 1 H318 <sup>a</sup> Skin Sens. 1A H317 <sup>a</sup> Acute Tox. 2 H330 <sup>a</sup> Aquatic Acute 1 H400 <sup>a</sup> M: 10 Aquatic Chronic 1 H410 <sup>a</sup>
2. <b>M65 Conjugate Dilution Buffer</b>	5-Chloro-2-methyl-4-isothiazolin-3-one,	247-500-7	26172-55-4	-	≥ 0.0017 – 0.0019	See classification M65HRP Conjugate
	Methyl-4-isothiazolin-3-one	220-239-6	2682-20-4	-	≥ 0.00045 – 0.00068	
3. <b>Standard A, B, C, D and E</b>	5-Chloro-2-methyl-4-isothiazolin-3-one,	247-500-7	26172-55-4	-	≥ 0.002 – 0.0025	See classification M65HRP Conjugate
	Methyl-4-isothiazolin-3-one	220-239-6	2682-20-4	-	≥ 0.0006 – 0.0009	

Revision date	Replaces	First edition	Art. no	Issued by	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB	4 of 12

## M65 EpiRat™ ELISA

	Tartrazin	217-699-5	1934-21-0	01-21201168 75-52-xxxx	0.01	Skin Sens. 1	H317 <sup>c</sup>
<b>4.</b>	3,3',5,5' TMB Substrate	259-364-6	54827-17-7	-	≤ 0.05	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3	H315 <sup>b,c</sup> H319 <sup>b,c</sup> H335 <sup>b,c</sup>
<b>5.</b>	*Sulphuric acid <sup>d</sup> Stop solution	231-639-5	7664-93-9	01-21194588 38-20-xxxx	5.5	Skin Corr. 1A	H314 <sup>a</sup>

a) *Harmonized* classification according to Annex VI, part 3, table 3.1 and 3.2, Regulation (EC) No 1272/2008 (CLP).  
b) *Classification according to REACH registration.*  
c) Classification according to the manufacturer.  
d) Exposure limits according to National regulations (Great Britain EH40, Workplace exposure limits).

\* Sulphuric acid is included in the Stop solution to 5.5 %, why the classification H314 of the mixture is not applicable.

**Other information:** The product kit also contains: M6 Coated Microstrips, Wash Tablet and Sealing Tape.  
For a full text of H- phrases: See Section 16

### SECTION 4. FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

##### Inhalation

Fresh air. If difficulties in breathing, get medical advice.

##### Skin contact

Rinse with water. Consult a doctor if symptoms persist.

##### Eye contact

After contact with eyes, flush cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Contact a doctor.

##### Ingestion

Flush mouth with plenty of water (do not swallow), drink a couple of glasses of water. Do not induce vomiting. Consult a doctor if more than a small amount has been swallowed.

##### Information to medical advice

Treat symptomatically.

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

Inhalation: May cause light cough and transient irritations. Long-lasting and/or repeating exposure may cause allergy or asthma symptoms.

Skin Contact: Causing transient redness and irritations.

Revision date	Replaces	First edition	Art. no	Issued by	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB	5 of 12

## M65 EpiRat™ ELISA

Eye Contact: Causes redness, light pain and transient irritation.

Ingestion: Smaller amounts are not expected to provide any acute or delayed symptoms.

Other:

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

Eye wash should be available at the working place.

## SECTION 5. FIREFIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

Suitable extinguishing media are powder, foam, carbon dioxide or water spray. No special extinguishing media needed. Use the same extinguishing media as recommended for the surroundings. Do not use direct water jet.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In case of fire, toxic and corrosive fumes such as oxides of carbon, sulphur oxides or other combustion products may develop.

### 5.3 ADVICE FOR FIREFIGHTERS

Precautions according to the standard procedure for chemical fires.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Ensure adequate ventilation. Wear gloves and eye protection if splashing, or direct contact. When large spills, contact the fire department.

### 6.2 ENVIRONMENTAL PRECAUTIONS

Avoid discharge of large amounts into the sewer.

### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb spillages with suitable inert absorbent material such as sand or active clay. Collect the spill and treat as hazardous waste.

Collected and treated as hazardous waste.

Rinse away residues with plenty of water.

### 6.4 REFERENCE TO OTHER SECTIONS

See Section 8 for Exposure controls / personal protection and Section 13 for disposal considerations.

## SECTION 7. HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

Revision date	Replaces	First edition	Art. no	Issued by	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB	6 of 12

## M65 EpiRat™ ELISA

Avoid inhalation and direct contact with the product.

Do not eat, drink and smoke when handling the product. Normal hand hygiene.

Ensure that contaminated clothing does not come into contact with foodstuffs etc. and is washed before re-use.

When handling the product, the Work Environment Authority AFS 2011:19, latest version through AFS 2019:9, "Chemical safety risks" must be followed. (Thermosets)

When handling, national regulations related to work environment must be followed.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a cool dry place in a well-ventilated / not in direct sunlight / away from ignition sources. Do not freeze. Protect from light.

Vapor concentration on the floor and in low-lying spaces.

Must be stored according to national regulations for flammables.

### 7.3 SPECIFIC END USE

See Section 1.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

Exposure limits according to Directives 2000/39/EC (IOELV Directives).

Sulphuric acid (The mist is defined as the thoracic fraction): 0.05 mg/m<sup>3</sup> (TWA 8h)

#### Other information

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### 8.2 EXPOSURE CONTROLS

#### Appropriate technical measures

Methods are designed to prevent direct contact.

Possibility to rinse eyes shall be available at place of work. Ensure adequate ventilation. In case of insufficient ventilation, mechanical ventilation with local exhaust ventilation (LEV) should be used.

#### Personal protection

Eye/face protection: Protective glasses shall be used.

Skin protection: Protective gloves meeting the requirements of Standard EN 374 shall be used.  
Recommended glove material: neoprene.

Respiratory protection: Not normally required.

Other protection: Not normally required.

Thermal hazard. Not relevant.

#### Environmental exposure controls

Avoid release to the environment.

Revision date	Replaces	First edition	Art. no	Issued by	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB	7 of 12

## M65 EpiRat™ ELISA

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

##### Product description <sup>4</sup>

Physical state:	Component 1-5	<i>Liquid</i>
	Component 1	<i>Light red brown</i>
	Component 2	<i>Blue</i>
Colour:	Component 3	<i>Yellow</i>
	Component 4	<i>Colorless</i>
	Component 5	<i>White</i>
Odour	Component 1-5	<i>No smell</i>
Melting-point / freezing-point: (all components)		0°C
Boiling point or initial boiling point and boiling range (all components):		100 °C
Flammability:		N.A
Lower and upper explosion limit:		N.A
Flash point:		N.A
Auto-ignition temperature:		N.A
Decomposition temperature:		N.A
	<i>Component 1</i>	7.0
	<i>Component 2</i>	7.0 ± 0.1
pH:	<i>Component 3</i>	7.0 ± 0.1
	<i>Component 4</i>	3.55 ± 0.20
	<i>Component 5</i>	≤ 1
Kinematic viscosity:		N.A
Solubility:		Soluble
Partition coefficient n-octanol/water (log value):		N.A
Vapour pressure:		N.A
Relative density (component 5)		1.03 g/cm <sup>3</sup>
Particle characteristics:		N.A

#### 9.2 OTHER INFORMATION

Component 5: Can be corrosive to metals.<sup>3</sup>

##### 9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

Not relevant.

##### 9.2.2 OTHER SAFETY CHARACTERISTICS

Not relevant.

### SECTION 10. STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

May be corrosive to metals.<sup>4</sup>

#### 10.2 CHEMICAL STABILITY

Stable until expiry date stated on label if stored under specified conditions.<sup>4</sup>

Revision date	Replaces	First edition	Art. no	Issued by	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB	8 of 12

## M65 EpiRat™ ELISA

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No hazardous reactions at normal usage and storage.<sup>4</sup>

### 10.4 CONDITIONS TO AVOID

No data available.<sup>4</sup>

### 10.5 INCOMPATIBLE MATERIALS

None.<sup>4</sup>

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

None.<sup>4</sup>

## SECTION 11. TOXICOLOGICAL INFORMATION

The kit consists of several components whereas component 5 (stop solution) is hazardous for health.

### 11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

<b>Acute toxicity:</b>	Not classified as acutely toxic.
Sulphuric acid <sup>3</sup>	LC <sub>50</sub> inhalation rat: 510 mg/L/2h
<b>Skin corrosion/irritation:</b> <b>H315</b>	Solution 5 is a skin irritant.
<b>Serious eye damage / irritation:</b> <b>H319</b>	Solution 5 is irritating to the eyes.
<b>Respiratory or skin sensitization:</b> <b>EUH208</b>	Not classified as sensitising. Components 1-4 contain Methyl-4-isothiazolin-3-one in a small amount which may cause a skin sensitization and/or allergic contact dermatitis at repeated exposure.
<b>Germ cell mutagenicity:</b>	Not classified as mutagenic.
<b>Carcinogenicity:</b>	Not considered to be carcinogenic.
<b>Reproductive toxicity:</b>	Not classified as toxic to reproduction.
<b>Specific organ toxicity-single exposure (STOT):</b>	Not considered to cause damage to organs after single exposure.
<b>Specific organ toxicity-repeated exposure (STOT):</b>	It is not considered to cause damage to organs after repeated exposure.
<b>Aspiration Hazard:</b>	Not considered an aspiration hazard.
<b>Specific effects</b>	
None known.	

### 11.2 INFORMATION ON OTHER HAZARDS

**Endocrine disrupting properties:** Not relevant.



Revision date	Replaces	First edition	Art. no	Issued by	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB	9 of 12

## M65 EpiRat™ ELISA

### SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as hazardous to the environment and is not expected to result in any negative environmental consequences but should be handled according to good industrial standards.

#### 12.1 TOXICITY

The components are not hazardous to the environment.

Sulphuric acid <sup>3</sup>: LC<sub>50</sub> 96h: 42 mg/l (species: fish, *Gambusia affinis*).  
EC<sub>50</sub> 24h: 29 mg/l (species: water flea, *Daphnia magna*).

#### 12.2 PERSISTENCE AND DEGRADABILITY

No information available.

#### 12.3 BIOACCUMULATIVE POTENTIAL

No information available.

#### 12.4 MOBILITY IN SOIL

No information available.

#### 12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Based on available information, this mixture contains no substance that meets the PBT or vPvB criteria according to Annex XIII to Regulation (EC) No. 1907/2006 (REACH).

#### 12.6 ENDOCRINE DISRUPTING PROPERTIES

No substances have been identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations  $\geq 0.1\%$  (w/w).

#### 12.7 OTHER ADVERSE EFFECTS

None known.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

##### Product

Classified as conventional waste, according to Commission Regulation (EU) No 1357/2014 on waste.

EWC-code: 07 05 01\* aqueous washing liquids and mother liquors, according to the European Waste Catalogue.

All disposal practices must be in accordance with local, regional, national and international regulations.

##### Packaging

Packaging containing visible residues of hazardous substances is treated as product.

EWC- code: 15 01 10\* (Packaging containing residues of or contaminated by hazardous substances).

Well emptied packaging can be treated as conventional waste and be left for incineration (energy recovery).

Emptied and cleaned packaging can be treated as conventional waste and be left for recycling.

EWC- code: 15 01 01 (Paper and cardboard packaging) / 15 01 02 (Plastic packaging) / 15 01 04 (Metal packaging).

Revision date	Replaces	First edition	Art. no	Issued by	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB	10 of 12

## M65 EpiRat™ ELISA

### SECTION 14. TRANSPORT INFORMATION

This product is not covered by the regulations for transportation of dangerous goods.

	ADR/RID	ADN	IMDG	IATA /ICAO
<b>14.1 UN-number or ID number</b>	Not relevant	Not relevant	Not relevant	Not relevant
<b>14.2 UN proper shipping name</b>	Not relevant	Not relevant	Not relevant	Not relevant
<b>14.3 Transport hazard class(es)</b>	Not relevant	Not relevant	Not relevant	Not relevant
<b>14.4 Packing group</b>	Not relevant	Not relevant	Not relevant	Not relevant
<b>14.5 Environmental hazards</b>	No	No	No	No

#### 14.6 SPECIAL PRECAUTIONS FOR USER

Tunnel restriction code:	N.A
EmS code:	N.A
Classification code:	N.A
Limited amount:	N.A
Reduced amount:	N.A

#### 14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

Not relevant.

### SECTION 15. REGULATORY INFORMATION

#### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

This safety data sheet is prepared in accordance with the EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH) and Commission Regulation (EU) 2020/878 of 18 June 2020 amending the European Parliament and Council Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH).

#### Regulations

Revision date	Replaces	First edition	Art. no	Issued by	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB	11 of 12

## M65 EpiRat™ ELISA

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substance and mixtures (CLP).

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste.

European Waste Catalogue (EWC-codes)

GESTIS International Limit Values

### National legislation

2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 to 2021

Europaparlamentets och Rådets förordning (EG) nr 1272/2008, (CLP)

Kommissionens förordning (EU) nr 1357/2014, (Avfall).

Exposure limits according to National regulations (Great Britain EH40, Workplace exposure limits).

Avfallsförordningen SFS 2011:927.

### Other information

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### 15.2 CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16. OTHER INFORMATION

### Classification procedure

Test data is prioritized when classifying the product. When no test data are available, the classification rules in regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP) been used.

### Hazard statements in Section 3

H300	Fatal if swallowed.	H319	Causes serious eye irritation.
H310	Fatal in contact with skin.	H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.	H318	Causes serious eye damage.
H311	Toxic in contact with skin.	H335	May cause respiratory irritation.
H330	Fatal if inhaled.	H400	Very toxic to aquatic life.
H314	Causes severe skin burns and eye damage	H410	Very toxic to aquatic life with long lasting effects.
H315	Causes skin irritation		

### Abbreviations

ADN	International Carriage of Dangerous Goods by Inland Waterways
ADR	International Carriage of Dangerous Goods by Road
BCF	Bio Concentration Factor
EC <sub>50</sub>	Effective Concentration (concentration that gives response in 50 % of test subjects)
ECHA	European Chemical Agency
EmS	Emergency Schedule Information
IARC	International Agency for Research on Cancer

Revision date	Replaces	First edition	Art. no	Issued by	Page
11.03.2024	10/04/2019	10/04/2019	10060	Trossa AB	12 of 12

## M65 EpiRat™ ELISA

IC <sub>50</sub>	Inhibitory Concentration (concentration that shows inhibition in 50 % of the test subjects)
IATA/ICAO	IATA Dangerous goods regulation / ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG	International Maritime Dangerous Goods Code
KTV	Korttidsvärde (= en typ av hygieniskt gränsvärde)
LC <sub>50</sub>	Lethal Concentration (concentration causing the death of 50 % of a group of test animals)
LD <sub>50</sub>	Lethal Dose (dose causing the death of 50 % of a group of test animals)
LD <sub>Lo</sub>	Lethal Dose Low (= Lowest dose of a toxic material at which the death of the exposed test animal occurs.
Log P <sub>ow</sub>	Partition coefficient octanol - water
n.a.	not available
N/A	not applicable
NGV	Nivågränsvärde (= en typ av hygieniskt gränsvärde)
PBT	Persistent Bio-accumulative and Toxic
RID	International Carriage of Dangerous Goods by Rail
STEL	Short Term Exposure Limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	very Persistent and very Bioaccumulative

### Advice about education

The user of this product should have training that is relevant to the properties of the product and relevant use.

### References

- 1) *Classification & Labelling Inventory Database, ECHA.*
- 2) *Registered substances, ECHA.*
- 3) *Kemiska Ämnen online, Prevent.*
- 4) *Information from the supplier: No SDS M65EpiRat® ELISA has been provided from the manufacturer. EN- MSDS M30 Apoptosense ELISA (10011) has been used as a reference.*

### Version description

This safety data sheet has been revised on account of updated template according to annex II in REACH regulation (1907/2006).

The safety data sheet is dated 11/03/2024 and it replaces version dated 10/04/2019.