

**Trade name:** Substrate Solution

**Current version :** 1.0.0, Revision:: 22.10.2025

**Replaced version:** -, Revision:: -

**Region:** GB

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade name**

#### **Substrate Solution**

**Form**

The product is included in the following product sets:

AED-KIT ANAPLASMA-ELISA DOG  
AED-KIT5 ANAPLASMA-ELISA DOG (5)  
BED-KIT BABESIA-ELISA DOG  
BED-KIT5 BABESIA-ELISA DOG (5)  
EED-KIT EHRLICHIA-ELISA DOG  
EED-KIT5 EHRLICHIA-ELISA DOG (5)  
FEC-KIT FCoV- ELISA CAT  
FEC-KIT5 FCoV- ELISA CAT (5)  
LED-KIT LEISHMANIA ELISA DOG  
LED-KIT5 LEISHMANIA ELISA DOG (5)  
SED-KIT SARCOPTES-ELISA 2001® DOG  
SED-KIT5 SARCOPTES-ELISA 2001® DOG (5)  
SEP-KIT SARCOPTES-ELISA 2001® PIG

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

laboratory chemical

**Uses advised against**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

INDICAL BIOSCIENCE GmbH

Deutscher Platz 5b

04103 Leipzig

Germany

Telephone no. +49 341 12454 0

Fax no. +49 341 12454 60

e-mail [compliance@indical.com](mailto:compliance@indical.com)

**Advice on Safety Data Sheet**

[sdb\\_info@umco.de](mailto:sdb_info@umco.de)

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

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-

**Signal word**

-

**Hazard statement(s)**

-

**Hazard statements (EU)**

EUH210 Safety data sheet available on request.

**Precautionary statement(s)**

-

**Labelling information**

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

**2.3 Other hazards****PBT assessment**

The product is not considered to be a PBT.

**vPvB assessment**

The product is not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	<b>2-pyrrolidone</b>		
	616-45-5 210-483-1 - 01-2119475471-37	Eye Irrit. 2; H319	< 5.00 wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

**After inhalation**

Ensure supply of fresh air.

**After skin contact**

When in contact with the skin, clean with soap and water.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

**After ingestion**

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

No data available.

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Treat symptomatically.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water mist; Water spray jet; Dry chemical extinguisher; Carbon dioxide; Extinguishing measures to suit surroundings.

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Toxic gases/vapours

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8.

**For emergency responders**

Personal protective equipment (PPE) - see section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean contaminated surfaces thoroughly with water.

**6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale vapours.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from direct sunlight.

**Recommended storage temperature**

Value 2 - 8 °C

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original.

**Incompatible products**

Do not store together with: oxidizing agents

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	2-pyrrolidone			616-45-5 210-483-1	
	dermal	Long term (chronic)	systemic	4.2	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	29.62	mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	2-pyrrolidone			616-45-5 210-483-1	
	oral	Long term (chronic)	systemic	0.67	mg/kg bw/day
	dermal	Long term (chronic)	systemic	0.67	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	1.985	mg/m <sup>3</sup>

**PNEC values**

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	2-pyrrolidone		616-45-5 210-483-1	
	water	fresh water	0.5	mg/L
	water	marine water	0.05	mg/L
	water	fresh water sediment	2.17	mg/kg dry weight
	water	marine water sediment	0.217	mg/kg dry weight
	soil	-	0.14	mg/kg dry weight
	sewage treatment plant	-	10	mg/L

**8.2 Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, local exhaust at the work station if necessary.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**Eye / face protection**

Safety glasses (EN 166)

**Hand protection**

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	NBR		
Material thickness	>=	0.11	mm
Breakthrough time	>	480	min

**Other**

with 1907/2006/EC

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Chemical-resistant work clothes.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>	
liquid	
<b>Form</b>	
liquid	
<b>Colour</b>	
Colorless to light yellow	
<b>Odour</b>	
odourless	
<b>pH value</b>	
Value	3.5 - 4.0
Reference temperature	20 °C
Source	supplier
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
No data available	
<b>Ignition temperature</b>	
No data available	
<b>Auto-ignition temperature</b>	
Not applicable	
Source	supplier
<b>Oxidising properties</b>	
The product does not have oxidizing properties.	
<b>Explosive properties</b>	
Product does not present an explosion hazard.	
<b>Flammability</b>	
Not applicable	
Source	supplier
<b>Lower explosion limit</b>	
No data available	
<b>Upper explosion limit</b>	
No data available	
<b>Vapour pressure</b>	
No data available	
<b>Relative vapour density</b>	
No data available	

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<b>Relative density</b>	
No data available	

<b>Density</b>	
Value	1,0111 g/cm <sup>3</sup>
Source	supplier

<b>Solubility in water</b>	
Source	supplier
Comments	Completely miscible

<b>Solubility</b>	
No data available	

<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	2-pyrrolidone	616-45-5	210-483-1
log Pow		-0.71	
Reference temperature		25	°C
Method		OECD 107	
Source		ECHA	

<b>Kinematic viscosity</b>	
No data available	

<b>Particle characteristics</b>	
No data available	

## 9.2 Other information

<b>Other information</b>	
No data available.	

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

### 10.4 Conditions to avoid

Protect from heat and direct sunlight.

### 10.5 Incompatible materials

strong oxidizing agents; Metals

### 10.6 Hazardous decomposition products

No data available.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Acute oral toxicity</b>			
No	Substance name	CAS no.	EC no.
1	2-pyrrolidone	616-45-5	210-483-1
LD50		>	2000 mg/kg bodyweight
Species		rat	
Method		OECD 401	
Source		ECHA	

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Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	2-pyrrolidone	616-45-5	210-483-1
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity			
No data available			

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	2-pyrrolidone	616-45-5	210-483-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	2-pyrrolidone	616-45-5	210-483-1
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irritating to eyes		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	2-pyrrolidone	616-45-5	210-483-1
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No data available			

Reproduction toxicity			
No data available			

Carcinogenicity			
No data available			

STOT - single exposure			
No data available			

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	2-pyrrolidone	616-45-5	210-483-1
Route of exposure	oral		
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	On the basis of the available information, the classification criteria are not met.		

Aspiration hazard			
No data available			

Endocrine disrupting properties			
No data available			

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**11.2 Information on other hazards****Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish (acute)				
No	Substance name	CAS no.		EC no.
1	2-pyrrolidone	616-45-5		210-483-1
LC50	>	4600	- 10000	mg/l
Duration of exposure			96	h
Species	Danio rerio			
Method	OECD 203			
Source	ECHA			

Toxicity to fish (chronic)				
No data available				

Toxicity to Daphnia (acute)				
No	Substance name	CAS no.		EC no.
1	2-pyrrolidone	616-45-5		210-483-1
EC50	>		500	mg/l
Duration of exposure			48	h
Species	Daphnia magna			
Method	EEC C2			
Source	ECHA			

Toxicity to Daphnia (chronic)				
No data available				

Toxicity to algae (acute)				
No	Substance name	CAS no.		EC no.
1	2-pyrrolidone	616-45-5		210-483-1
EC50	>		500	mg/l
Duration of exposure			72	h
Species	Desmodesmus subspicatus			
Method	DIN 38412 T.9			
Source	ECHA			

Toxicity to algae (chronic)				
No data available				

Bacteria toxicity				
No data available				

**12.2 Persistence and degradability**

Biodegradability				
No	Substance name	CAS no.		EC no.
1	2-pyrrolidone	616-45-5		210-483-1
Value			44.9	%
Duration			5	day(s)
Method	OECD 301 D			
Source	ECHA			
Evaluation	readily biodegradable			

**12.3 Bioaccumulative potential**

Bioconcentration factor (BCF)				
No	Substance name	CAS no.		EC no.
1	2-pyrrolidone	616-45-5		210-483-1

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BCF		3.16
Method	QSAR	
Source	ECHA	
Partition coefficient n-octanol/water (log value)		
No	Substance name	CAS no.
1	2-pyrrolidone	616-45-5
log Pow		-0.71
Reference temperature		25 °C
Method	OECD 107	
Source	ECHA	

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
Product Name	
Substrate Solution	
PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 UN number or ID number**

Not classified as dangerous in the meaning of transport regulations.

**14.2 UN proper shipping name**

Not classified as dangerous in the meaning of transport regulations.

**14.3 Transport hazard class(es)**

Not classified as dangerous in the meaning of transport regulations.

**14.4 Packing group**

Not classified as dangerous in the meaning of transport regulations.

**14.5 Environmental hazards**

Not classified as dangerous in the meaning of transport regulations.

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**14.6 Special precautions for user**

No data available.

**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****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in Annex XVII of the REACH regulation (EC) 1907/2006.

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H319 Causes serious eye irritation.

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

**Creation of the safety data sheet**

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

# Safety data sheet in accordance

with 1907/2006/EC

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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Prod-ID 811333