

DLD Diagnost	t <mark>ika GmbH</mark>		SAFETY DATA	<u> SHEE</u>
		ubstance/mixture and of the co	ompany/undertaking	
1.1 Product identified	er			
IA2 Antibody EL				
Catalogue no: E	A114/96			
1.2 Relevant identif	fied uses and	l uses advised against (if any	/):	
Detection of IA-2	2 antibodies in	human serum		
1.3 Details of the su	upplier of the	safety data sheet:		
DLD Diagnostika	a GmbH			
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SECTION 2: Hazard	ls identificati	on		
.1 Classification o	f the substar	nce or mixture		In
		Regulation (EC) No. 1272/200	8 [CLP]:	St
Kit Componen	t	Hazard Classification	Hazard	
•			Statements	ai
Streptavidin Pe	roxidase	Skin Sensitisation,	H317	
(SA-POD)		Category 1		
2.2 Label elements Labelling accor		lation (EC) No. 1272/2008 [Cl	LP]:	
STREPTAVIDI	N PEROXIDA	SE (SA-POD)		
Hazard				
pictogram	<!-- --> :	Signal word: Warning		
	$\mathbf{\vee}$			
Hazard statem				
H317		an allergic skin reaction		۲
Precautionary				5
P280	wear protection	tive gloves/protective clothing/	eye protection/face	
P302 + P352		: Wash with plenty of soap and	water	
P333 + P313		on or rash occurs: Get medical		
P362 + P364		taminated clothing and wash it		
2.3 Other Hazards				
All other kit com	onents not lis	ted in section 2.1 and 2.2 do no	ot contain hazardous	

Regulation (EC) No. 1272/2008. However, ingestion or exposure to large amounts from improper handling can be potentially hazardous.

This kit contains both animal and human proteins and should be treated as a potential biohazard. All animal and human sera have been tested to ensure the absence of infectious agents but all materials should be handled as though capable of transmitting infectious disease and disposed of accordingly.

The following precautionary statements should be taken into consideration: P233, P270, P281, P301 + P330 + P331, P302 + P352, P304 + P340, P305 + P351 + P338 (see section 16 for full text).

CTION 3: Composition/information on ingredients

Substances

Not applicable

Mixtures

Hazardous ingredients according to Regulation (EC) No. 1272/2008:

REPTAVIDIN PEROXIDASE (SA-POD)

Ingredient(s)	CAS No.	EC No.	Classification (C	GHS)	Conc. (v/v)
Stabilzyme® HRP Conjugate Stabilizer	N/A	N/A	Skin Sens. 1; H	317	>99%
Contains CMIT/MIT: Mix	xture, 5-chl	oro-2-methy	l-4-isothiazolin-3-oi	ne [EC	no. 247-500-7]
and 2-methyl-2H-isothia	zol-3-one [EC no. 220-	<u>239-6] (3:1):</u>		
CAS No. 559	965-84-9		,		
EC No. 613	3-167-00-5				
Concentration: 0.0	024%				
Classification: Acu	te Tox. 3 (0	Dral, Dermal	& Inhalation) H301	1, H311	& H331; Skin
Cor	Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic				
chro	chronic 1, H410				
Specific Concentrati	ion Limits:				
C≥	0.0015%		n Sens. 1, H317		
	$5\% \leq C < 0.$		e Irrit. 2, H319		
0.06	0.06% ≤ C < 0.6% Skin Irrit. 2, H315				
C≥	0.6%	Ski	n Corr. 1B, H314		
Kit Component Ingredie		redient(s)		Co	ncentration
Stop Solution	Su	phuric acid		0.25	M (< 5.0% v/v)
Calibrators and Controls		dium azide		(0.05% w/v

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Ingredient	CAS No.	EC No.	Classification GHS/CLP
2-Chloroacetamide	79-07-2	201-174-2	Acute Tox. 3 (Oral), Skin Sens. 1, Repr. 2; H301, H317, H361f
МІТ	26172-54-3	247-499-3	Acute Tox. 3 (Oral), Skin Corr. 1A, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H301, H314, H317, H400, H410
Oxypyrion	822-89-9	212-506-0	Acute Tox. 4, Eye Irrit. 2, STOT SE 3; <i>H302, H319, H335</i>
Sodium Azide	26628-22-8	247-852-1	Acute Tox. 2 (Oral & Inhalation), Acute Tox. 1 (Dermal), STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H300, H310, H330, H373, H400, H410, EUH032
Sulphuric Acid	7664-93-9	231-639-5	Met. Corr. 1, Skin Corr. 1A; <i>H290, H314</i>

The full text for the hazard statements can be found in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

After skin contact

Wash off skin thoroughly with water for at least 15 minutes. Remove contaminated clothing. In severe cases or if skin is broken, OBTAIN MEDICAL ATTENTION.

After eye contact

Separate eyelids with fingers and flush eye with copious amounts of water for at least 15 minutes. OBTAIN MEDICAL ATTENTION.

After Inhalation

Remove from exposure, rest and keep warm. If breathing becomes difficult,

OBTAIN MEDICAL ATTENTION.

After Ingestion

If patient is conscious, wash out mouth with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

- **4.2 Most important symptoms and effects, both acute and delayed** Not available.
- 4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing media

Use water, dry powder or foam as appropriate to supporting fire.

5.2 Special hazards arising from the substance or mixture

May evolve toxic fumes in fire. Hazardous combustion products are not known for kit components but combustion products for the ingredients listed in subsection 3.2 can be found in the following table:

Ingredient	Hazardous combustion product(s)
2-Chloroacetamide	Carbon oxides, nitrogen oxides (NOx) and hydrogen chloride gas
MIT	Carbon oxides, nitrogen oxides (NOx), sulphur oxides and hydrogen chloride gas
Oxypyrion	No data available
Sodium Azide	Nitrogen oxides (NOx)
Stabilzyme® HRP Conjugate Stabilizer	Carbon oxides and nitrogen oxides (NOx)
Sulphuric Acid	Sulphur oxides

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear appropriate protective clothing as described in subsection 8.2. Ventilate area and avoid breathing vapours, mist or gas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent any reagents from entering drains.

6.3 Methods and material for containment and cleaning up

Wipe up liquid spills with absorbent paper. For solid spills, sweep up without raising dust. Once pick up is complete, wash site with detergent and water. Decontaminate with a suitable disinfectant solution.

6.4 Reference to other sections

See sections 8 and 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Material of human origin has been tested and found non-reactive for HIV 1 and 2 and HCV antibodies and HBsAg. All animal sourced material has been obtained from animals certified as healthy and free from disease. However all potentially biohazardous components should be considered as potentially infectious. Level II containment should be applied.

Do not eat, drink or smoke in the laboratory. Do not pipette by mouth. Avoid skin and eye contact. Wear appropriate protective clothing as described in subsection 8.2. Avoid the use of needles or other sharp implements. Avoid prolonged or repeated exposure. Wash hands thoroughly after handling. Avoid release into drains; in case of accidental spillage, refer to section 6.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Store in a dry place in the box supplied at a temperature between +2 and +8°C.

7.3 Specific end use(s)

The IA2 Antibody ELISA Kit is intended for professional use only and to be used solely for the purpose as specified in subsection 1.2. Refer to kit instructions for details.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No occupational exposure limits exist for any kit components. However, the following limits apply to component ingredients: sodium azide and sulphuric acid (see subsection 3.2 for components containing these substances):

Value	Control Parameters	Basis
Sodium Az	zide	
STEL	0.3 mg/m ³	UK: EH40/2005 Workplace Exposure Limits (WEL) Europe: Commission Directive 2000/39/EC
TWA	0.1 mg/m ³	UK: EH40/2005 Workplace Exposure Limits (WEL) Europe: Commission Directive 2000/39/EC
Sulphuric	Acid	
TWA	0.05 mg/m ³	UK: EH40/2005 Workplace Exposure Limits (WEL) Europe: Commission Directive 2009/161/EU

8.2 Exposure controls

Appropriate engineering controls

Good laboratory practice should be followed (see Section 7). Avoid contact with skin or eyes. Wash hands after use.

Individual protection measures (personal protective equipment)

Eye/face protection

Chemical safety glasses or goggles conforming to appropriate government standards such as EN166 (EU) or NIOSH (US).

Skin and body protection

Chemical resistant gloves to be used in accordance with standard EN374 derived from EU Directive 89/686/EEC. Latex or vinyl gloves will provide sufficient protection. Inspect gloves for damage prior to use and change if any sign of degradation. Proper glove removal technique must be used.

Wash hands after use.

Respiratory protection

Local exhaust.

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Prevent any reagents from entering drains.

SECTION 9: Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Kit component	Appearance	Odour	рН	Solubility
IA-2 Coated Wells	Colourless polystyrene microplate	None	N/A	N/A
IA-2-Biotin	White solid	None	N/A	In water
Reconstitution Buffer for IA-2-Biotin	Blue liquid	None	~8.0	N/A
Streptavidin Peroxidase (SA-POD)	Pale brown/ yellow liquid	None	N/A	N/A
Diluent for SA-POD	Colourless liquid	None	~7.5	N/A
Peroxidase Substrate (TMB)	Colourless to slight blue liquid	None	N/A	N/A
Reaction Enhancer	Pink liquid	None	~7.3	N/A
Stop Solution (0.25M sulphuric acid)	Colourless liquid	May be slightly sulphurous	<1.0	N/A
Concentrated Wash Solution	Colourless liquid	None	~7.6	N/A
Calibrators and Controls	Pale yellow liquid	None	N/A	N/A

There is no information available for the following categories: odour threshold, melting/freezing point, initial boiling point/boiling range, flash point, evaporation rate, flammability (solid, gas), upper/lower flammability or explosive limits, vapour

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pressure, vapour density, relative density, partition coefficient, autoignition temperature, decomposition temperature, viscosity, explosive properties or oxidising properties.

9.2 Other information

All liquid components are miscible with water in all proportions.

SECTION 10: Stability and reactivity

10.1 Reactivity

Data is not available on the reactivity of individual kit components but is given, where available, on substances listed in subsection 3.2.

Sulphuric acid is a strong oxidising agent and has a corrosive effect. There is no data available on the other ingredients.

10.2 Chemical stability

All components of the IA2 Antibody ELISA Kit have been found stable for stated shelf life when stored under the recommended conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known for kit components although, hazardous reactions occur for the following substances listed in subsection 3.2:

Ingredient	Hazardous Reaction
Sodium Azide	Risk of explosion and/or toxic gas formation exists with heavy metals, bromine, lead, chromyl chloride, dichloromethane, dimethylsulfate, halogenated hydrocarbon, acid, carbon disulphide, sulphuric acid, copper and nitric acid. Generates dangerous gases or fumes with acids and water, leading to the release of hydrazoic acid. Violent reactions possible with nitrates, benzoyl chloride and potassium nitrate.
Sulphuric Acid	Violent reactions possible with: Water, alkali metals, alkali compounds, ammonia, aldehydes, acetonitrile, alkaline earth metals, alkalines, acids, alkaline earth compounds, metals, metal alloys, oxides of phosphorus, phosphorus, hydrides, halogen- halogen compounds, oxyhalogenic compounds, permanganates, nitrates, carbides, combustible substances, organic solvent, acetylidene, nitriles, organic nitro compounds, anilines, peroxides, picrates, nitrides, lithium silicide, iron (III) compounds, bromates, chlorates, amines, perchlorates and hydrogen peroxide.

10.4 Conditions to avoid

Peroxidase substrate (TMB) is light sensitive and therefore the bottle should be kept tightly closed when not in use and stored in a dark place.

Proteins, sodium azide and sulphuric acid are heat sensitive and storage or use at the improper temperature may compromise the integrity of the kit.

10.5 Incompatible materials

No data is known for kit components but the following data is known for components listed in subsection 3.2:

Ingredient	Incompatible materials
2-Chloroacetamide	Strong oxidising agents, strong acids, strong bases and strong reducing agents
MIT	Strong oxidising agents
Oxypyrion	No data available
Sodium Azide	Aluminium and heavy metals
Stabilzyme® HRP Conjugate Stabilizer	None known
Sulphuric Acid	Animal and vegetable tissues. Metals. Contact with metals liberates hydrogen gas.

10.6 Hazardous decomposition products

No decomposition products are formed if kit is stored and used under the specified storage and handling conditions.

May evolve toxic fumes in fire. Thermal decomposition products are not known for the kit components but hazardous combustion products of the ingredients listed in subsection 3.2 can be found in subsection 5.2

SECTION 11: Toxicological information

11.1 Information on toxicological effects

The kit components have not been directly tested for their toxicological effects, therefore no information is known for these mixtures. The following toxicological data is known for ingredients listed in subsection 3.2:

	*Definitions can be four	nd in section 16
Measurement*	Value	Species
LD ₅₀ (Oral)	138 mg/kg	Rat
LD ₅₀ (Oral)	175 mg/kg	Rat
LD ₅₀ (Oral)	1.765 mg/kg	Rat
LD ₅₀ (Dermal)	>2000 mg/kg	Rat
LD ₅₀ (Oral)	27 mg/kg	Rat
LC ₅₀ (Inhalation)	0.054 – 0.52 mg/L (4h)	Rat
LD ₅₀ (Dermal)	20 mg/kg	Rabbit
No data available. Acute inhalation toxicity: mucosal irritations, cough, shortness of breath, possible damage to respiratory tract.		
	$\begin{array}{c c} LD_{50} \mbox{ (Oral)} \\ LC_{50} \mbox{ (Inhalation)} \\ LD_{50} \mbox{ (Dermal)} \\ No \mbox{ data available} \\ irritations, \mbox{ cough, s} \end{array}$	$\begin{tabular}{ c c c c c c } \hline Measurement^* & Value \\ \hline LD_{50} (Oral) & 138 mg/kg \\ \hline LD_{50} (Oral) & 175 mg/kg \\ \hline LD_{50} (Oral) & 1.765 mg/kg \\ \hline LD_{50} (Dermal) & >2000 mg/kg \\ \hline LD_{50} (Oral) & 27 mg/kg \\ \hline LC_{50} (Inhalation) & 0.054 - 0.52 mg/L (4h) \\ \hline LD_{50} (Dermal) & 20 mg/kg \\ \hline No \ data \ available. \ Acute \ inhalation \ toxic \ irritations, \ cough, \ shortness \ of \ breath, \ possib \ breath, \$

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(b) Skin corrosion/irritation

Ingredient	Test/Result
MIT	Skin (reconstructed human epidermis (RhE) – Corrosive
Oxypyrion	Not classified base on available information. May cause skin irritation in susceptible persons
Sodium Azide	In vitro study, human skin model test – No skin irritation
Sulphuric Acid	Causes severe burns

No data available for 2-chloroacetamide or Stabilzyme® HRP Conjugate Stabilizer.

(c) Serious eye damage/irritation

Ingredient	Test/Result
Oxypyrion	Causes serious eye irritation
Sodium Azide	In vitro study, exposure time 4 hours – No eye irritation
Sulphuric Acid	Causes serious eye damage – risk of blindness

No data available for 2-chloroacetamide, MIT or Stabilzyme® HRP Conjugate Stabilizer.

(d) Respiratory or skin sensitisation

Ingredient	Test/Result
2-Chloroacetamide	Maximisation test, Guinea pig – May cause sensitisation by
	skin contact
Oxypyrion	Not classified based on available information
Sodium Azide	Sensitisation test, Mouse – Negative
Stabilzyme® HRP	May cause an allergic skin reaction
Conjugate Stabilizer	

No data available for MIT or sulphuric acid.

(e) Germ cell mutagenicity

Ingredient	Test/Result	
2-Chloroacetamide	Hamster, lungs – Negative	
	Mouse, male and female - Negative	
MIT	Ames test, Salmonella typhimurium – Negative	
Oxypyrion	Not classified based on available information	

No data available for sodium azide, Stabilzyme® HRP Conjugate Stabilizer or sulphuric acid.

(f) Carcinogenicity

Ingredient	Test/Result	
2-Chloroacetamide	IARC: No component of this product present at levels $\ge 0.1\%$	
МІТ	is identified as probable, possible or confirmed human carcinogen by IARC	
Oxypyrion	Not classified based on available information	

No data available for sodium azide, Stabilzyme® HRP Conjugate Stabilizer or sulphuric acid.

(g) Reproductive toxicity

Ingredient	Test/Result
2-Chloroacetamide	Suspected human reproductive toxicant
Oxypyrion	Not classified based on available information
No data available for MIT	, sodium azide, Stabilzyme® HRP Conjugate Stabilizer or sulphuri
acid.	

(h) STOT-single exposure

Ingredient	Test/Result			
Oxypyrion	May cause respiratory irritation	n		
No data available for 2-chlor	oacetamide, MIT, sodium azide,	Stabilzyme®	HRP	Conjugate
Stabilizer or sulphuric acid.		•		

(i) STOT-repeated exposure

Ingredient	Test/Result
Oxypyrion	Not classified based on available information
No data available for	2-chloroacetamide, MIT, sodium azide, Stabilzyme® HRP Conjugate Stabilizer

No data available for 2-chloroacetamide, MIT, sodium azide, Stabilzyme® HRP Conjugate Stabilizer or sulphuric acid.

(j) Aspiration hazard

Ingredient	Test/Result
Oxypyrion	Not classified based on available information

No data available for 2-chloroacetamide, MIT, sodium azide, Stabilzyme® HRP Conjugate Stabilizer or sulphuric acid.

SECTION 12: Ecological information

The kit components have not been tested for their ecological effects, therefore no information is known for these mixtures. The following ecological data is known for ingredients listed in subsection 3.2:

12.1 Toxicity *Definitions can be found in section 16 Value (inc. Measurement* Ingredient Toxicity to exposure time) 2-Chloroacetamide Fish LC50 19.8 mg/L (96h) (Carassius auratus (goldfish)) EC50 Daphnia 14 mg/L (48h) (Daphnia magna (water flea)) MIT Daphnia EC50 2.33 mg/L (48h) (Daphnia magna (water flea)) Algae ErC₅₀ 0.289 mg/L (72h) (Pseudokirchneriella NOEC 0.047 mg/L (72h) subcapitata (green algae)) Oxypyrion LC50 70.7 mg/L (96h) Fish (Oncorhynchus mykiss (rainbow trout)) >97.8 mg/L (96h) Fish LC50 (Lepomis macrochirus (bluegill sunfish)) Daphnia EC50 78.6 mg/L (48h) (Daphnia magna (water flea)) Sodium Azide Fish LC_{50} 0.70 mg/L (96h) (Lepomis macrochirus (bluegill sunfish)) EC_{50} Daphnia 4.2 mg/L (48h) (Daphnia pulex (water flea))

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	Algae (mixed culture of green algae)	IC ₅₀	272 mg/L
	Microorganisms (Photobacterium phosphoreum)	EC ₅₀	38.5 mg/L
Stabilzyme® HRP Conjugate Stabilizer	Fish (<i>Oncorhynchus myki</i> ss (rainbow trout))	LC ₅₀	0.19 mg/L
	Daphnia & other aquatic invertebrates (<i>Crassostrea</i> <i>virginica</i> (eastern oyster))	EC ₅₀	0.028 mg/L
	Algae (<i>Raphidocelis subcapitata</i> (green algae))	EC ₅₀	0.018 mg/L (72h)

No data available for sulphuric acid.

12.2 Persistence and degradability

Ingredient	Test/Result	
2-Chloroacetamide	Biodegradability: aerobic, exposure time 28 days	
	Results: 94% - Readily degradable.	
MIT	Biodegradability: aerobic, exposure time 28 days	
	Results: 0% - Not readily degradable.	
Oxypyrion	Biodegradability: 94% - Readily degradable.	
Stabilzyme® HRP	Not rapidly degradable.	
Conjugate Stabilizer		

No data available for sodium azide or sulphuric acid.

12.3 Bioaccumulative potential

Ingredient	Test/Result
Oxypyrion	Low Pow: -0.64
Sodium Azide	Partition coefficient: n-octanol/water - log Pow: 0.3 (Bioacculumulation is not expected)
Stabilzyme® HRP Conjugate Stabilizer	Log Kow: >5 (significant bioaccumulation)

No data available for 2-chloroacetamide, MIT or sulphuric acid.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Ingredient	Test/Result
2-Chloroacetamide	This substance/mixture contains no components considered to be
MIT	either persistent, bioaccumulative and toxic (PBT), or very
Oxypyrion	persistent and very bioaccumulative (vPvB) at levels of $\geq 0.1\%$.
Sodium Azide	
No data available for Stabilzyme® HRP Conjugate Stabilizer or sulphuric acid	

No data available for Stabilzyme® HRP Conjugate Stabilizer or sulphuric acid.

12.6 Other adverse effects

The concentrations of ingredients listed in subsection 3.2 are below the acceptable limit for hazardous substances; the ecological risk is minimal. However, it is recommended that reagents do not enter drains in large quantities.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Chemical and biological residues are classified as special waste and as such, are covered by regulations which may vary according to location. Contact your local waste disposal authority for advice or pass to a licensed disposal company. Observe all national and local environmental regulations.

Contaminated packaging should be disposed of using the same routes.

SECTION 14: Transport information

This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Transport of this product can be carried out at ambient temperature but in the event of delays store at $2 - 8^{\circ}$ C with all reagents contained within the packaging provided.

14.1 UN number

Not applicable.

- **14.2 UN proper shipping name** Not applicable.
- **14.3 Transport hazard class(es)** Not applicable.
- **14.4 Packing group** Not applicable.
- **14.5 Environmental hazards** Not applicable.
- 14.6 Special precautions for user
 - See sections 6 to 8.
- **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code** Not applicable.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. None known.
- **15.2 Chemical safety assessment** Not applicable.

SECTION 16: Other information

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This SDS has been compiled in accordance with Commission Regulation (EU) No. 453/2010

Full text of precautionary phrases (listed in subsection 2.3) according to Regulation (EC) No. 1272/2008:

P233: Keep container tightly closed.

P270: Do not eat, drink or smoke when using this product.

P281: Use personal protective equipment as required.

P301 + P330: IF SWALLOWED rinse mouth.

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

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. H290: May be corrosive to metals.

H300: Fatal if swallowed.

H301: Toxic if swallowed.

H302: Harmful if swallowed.

H310: Fatal in contact with skin.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H330: Fatal if inhaled.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

H361f: Suspected of damaging fertility.

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

EUH032: Contact with acids liberates very toxic gas.

Definitions:

LC50 = The lethal concentration of a substance that kills 50% of the test population within a designated period.

LD50 = Lethal dose for 50% of the test population.

EC50 = The effective concentration of a substance that causes adverse effects in 50% of the test population within a designated period.

ErC50 = The concentration of a substance which results in 50% reduction in growth rate of the test population relative to the control within 72 hours exposure.

IC50 = The inhibition concentration of a substance that causes a 50% inhibition of growth of the test population relative to the control within a designated period.

NOEC = No-observed-effect-concentration. The highest concentration at which no toxic effects are observed.

STEL = Short term exposure limit (15 minute reference period).

TWA = Time weighted average, long term exposure limit (8 hour reference period).

The above information is believed to be correct but does not purport to be all-inclusive and is provided for guidance only. DLD GmbH shall not be held liable for any damage or injury resulting from handling or from contact with the above product and assumes no responsibility to the accuracy or completeness of the data contained herein. It is the responsibility of the purchaser to ensure that laboratory workers who use this product are aware of its hazards and take all necessary precautions to prevent contact, ingestion, inhalation or any other mode of exposure.