

MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1272/2008 and (EU) No. 453/2010 and Directive 67/548/EEC or 1999/45/EC

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

Product identifier

Product number 10011

REF

Product name

M30 Apoptosense® ELISA

Relevant identified uses of the substance or mixture and uses advises against

For in vitro use only. See Instruction for use for information and intended use of this product.

Details of the supplier of the safety data sheet

Vivalavida AB Hästholmsvägen 32 131 30 Nacka Sweden Phone +46 (0)8 122 053 00 Email: info@vlvbio.com Website: www.vlvbio.com

Emergency telephone number

+46 (0)8 122 053 00 (08:30 to 17:00, CET)

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Kathon CG: Hazardous components are 5-chloro-2 methyl-2H-isothiazol-3-one (EC No. 247-500-7) and 2-methyl-2H -isothiazol-3-one (EC No. 220-239-6) as a mixture, 1:3 (CAS No. 55965-84-9), conc. 1–2.5 %.

Concentration of the dangerous substances in component numbers 2–5: ≤ 0.004 %.

0.0015 % ≤ conc. < 0.06 %

Classification of the substance or mixture

Skin Sens. Category 1 (H317)

Label elements
Hazard pictogram: N/A
Hazard statement(s)

H317: May cause an allergic skin reaction.

Precautionary statement(s)

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

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

P314: Get medical advice/attention if you feel unwell.

Classification

R43

Labelling

Hazard symbol: N/A

R-phrase(s)

R43: May cause sensitization by skin contact.

Classification according to Directives

67/548/EEC or 1999/45/EC

S-phrase(s)

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S28: After contact with skin wash immediately with plenty of water and soap.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Sulphuric acid: EC No. 231-639-5, CAS No. 7664-93-9

Concentration of the dangerous substance in component number 7: 5.5 %

5 % ≤ conc. < 15 %

Classification of the substance or mixture

Skin Irrit. Category 2 (H315) Eye Irrit. Category 2 (H319)

Label elements

Hazard pictogram: GHS07



Signal word: Warning

Classification

Xi; R36/38

Labelling

Hazard symbol



Xi Irritant

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Hazard statement(s)

H290: May be corrosive to metals.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary statement(s)

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

P302 + P352: IF ON SKIN: Wash with plenty of water and soap. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

R-phrase(s)

R36/38: Irritating to eyes and skin.

S-phrase(s)

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

3,3',5,5' Tetramethylbenzidin: EC No. 259-364-6, CAS No. 54827-17-7

Component number 6: conc. ≤ 0.05 %

Not applicable or no information (concentration < 0.1 %).

Tartrazin: EC No. 217-699-5, CAS No. 1934-21-0

Component numbers 4-5: conc. ≤ 0.01 %

Not applicable or no information (concentration < 0.1 %).

Material of animal origin

Should be considered as potentially infectious. Components 1–5 contain material of animal origin.

Other hazards: Not known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures		Hazard N/A	Classification (pure	Concen- tration		
Component number	Component Name		Regulation 1272/2008 (EC)	Directive 67/548/EEC or 999/45/EC	tration	
1	M30 Coated Microstrips		N/A	N/A	N/A	
2	M30 HRP Conjugate	Kathon CG ¹⁾	H331, H311, H301, H314, H317, H400, H410	T; R23/24/25; C; R34, R43; N; R50-53	0.05 %	
3	M30 Conjugate Dilution Buffer	Kathon CG ¹⁾	See component 2	See component 2	0.15 %	
	M30 Standard A 0 U/L M30 Standard B 75 U/L	Kathon CG ¹⁾	See component 2	See component 2	0.05 %	
4	M30 Standard C 150 U/L M30 Standard D 250 U/L M30 Standard E 500 U/L M30 Standard F 750 U/L M30 Standard G 1 000 U/L	Tartrazin	H317	Xn; R42/43	0.01 %	
5	M30 Control Low M30 Control High	Kathon CG ¹⁾ Tartrazin	See component 2 and 4	See component 2 and 4	0.05 % 0.01 %	
6	TMB Substrate	3,3',5,5' Tetramethyl- benzidin	H315, H319, H335	Xi; R36/37/38	≤ 0.05 %	
7	Stop Solution	Sulphuric acid ²⁾	H314	C, R35	5.5 % (1.0 M)	
8	Wash Tablet	N/A	N/A	N/A	N/A	
9	Sealing Tape	N/A	N/A	N/A	N/A	

According to Regulation (EC) No. 1272/2008 (CLP), (pure form)

Hazard Class and Category Code(s)

- 1) Acute toxicity 3
- 1) Skin Corrosive 1B
- 1) Skin Sensitisation 1
- 1) Acute aquatic hazard 1
- 1) Chronic aquatic (long term) hazard 1

2) Skin Corrosive 1A

Classification Code(s)

- T Toxic
- N Dangerous for the environment
- C Corrosive

(pure form)

Xi Irritant

Xn Harmful

R-phrase(s)

R23/24/25 Toxic by inhalation, in contact with skin and if

According to Directive 67/548/EEC or 1999/45/EC,

swallowed.

R34 Causes burns.

R43 May cause sensitization by skin contact.

R50–53 Very toxic to aquatic organisms may cause long term

adverse effects in the aquatic environment.

R42/43 May cause sensitization by inhalation and skin contact.

R36/37/38 Irritating to eyes, respiratory system and skin.

R35 Causes severe burns

Hazard statement(s) H331 Toxic if inhaled.

H331 Toxic if inhaled

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

4. FIRST AID MEASURES

Description of first aid measures

After inhalation

Remove the victim to fresh air.

If breathing is difficult, give oxygen.

If not breathing, give artificial respiration.

Seek medical advice if needed.

After eye contact

After contact with eyes, flush cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

After swallowing

Flush mouth with plenty of water (do not swallow), drink a couple of glasses of water. Do not induce vomiting.

Never give anything to drink to an unconscious person.

Seek medical advice if needed.

After skin contact

After contact with skin, wash with plenty of water and soap.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Others

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Most important symptoms and effects, both acute and delayed

Causes skin irritation.

Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed

No data available.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use fire extinguishing media appropriate for site conditions, preferably water spray, carbon dioxide, powder or foam.

Unsuitable extinguishing media

No restrictions.

Special hazards arising from the substance or mixture

In case of fire may be liberated: Sulphur oxides.

Advise for firefighters

No risk of fire or explosion.

No generation of hazardous or toxic gases in dangerous quantities.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions protective equipment and emergency procedures

For non-emergency personal

Use suitable personal protective equipment as required, protective gloves (nitrile gloves)/protective clothing/eye protection/face protection.

For emergency responders

Use suitable personal protective equipment as required, protective gloves (nitrile gloves)/protective clothing/eye protection/face protection.

Environmental precautions

Prevent soil and water pollution

Methods and material for containment and cleaning up

Absorb spills with absorbent material. Clean contaminated areas

Reference to other sections

Personal protective equipment, see section 8. Dispose, see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Ensure good ventilation.

Avoid spills.

Do not eat and smoke in work areas.

Avoid contact with skin and eyes.

Wash hands after use.

Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Store in well closed original container at 2-8 °C.

Do not freeze.

Protect from light (components 2 and 6).

Specific end use(s)

See Instructions for use for intended use of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No data available.

Exposure controls

Appropriate engineering controls

Ensure of good ventilation.

Personal protective equipment

Eye/face protection

Wear safety glasses.

Body protection

Wear suitable protective clothing. Take off contaminated clothing and wash before use.

Hand protection

Wear protective gloves (nitrile gloves).

Respiratory protection

Not relevant.

Thermal hazards

Not relevant.

Environmental exposure controls

Not applicable

9. PHYSICAL AND CHE	MICAL PRO	PERTIES							
Information on basic physical and chemical properties									
Component number	1	2	3	4–5	6	7	8	9	
Appearance	Solid (Microstrips)	Liquid	Liquid	Liquid	Liquid	Liquid	Solid (Tablet)	Solid (Tape)	
Colour	Colourless	Light red brown	Blue	Yellow	Colourless to light yellow	Colourless	White	Colourless	
Odour	No smell	No smell	No smell	No smell	No smell	No smell	No smell	No smell	
рН	N/A	7.0	7.0 ± 0.1	7.0 ± 0.1	3.55 ± 0.20	≤ 1	N/A	N/A	
Melting point/freezing point	N/A	0 ℃	0 ℃	0 ℃	0 ℃	0 ℃	N/A	N/A	
Initial boiling point and boiling range	N/A	100 °C	100 °C	100 °C	100 °C	101 °C	N/A	N/A	
Flash point	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Evaporation rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Flammability	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Upper/lower flammability or explosive limits	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Vapour pressure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Vapour density	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Relative density	N/A	N/A	N/A	N/A	N/A	1,03 g/cm ³ (20 °C)	N/A	N/A	
Solubility in water	N/A	soluble	soluble	soluble	soluble	soluble	soluble	N/A	
Partition coefficient: n-octanol /water	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Auto-ignition temperature	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Decomposition temperature	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Viscosity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Explosive properties	Not explosive	Not explosive	Not explosive	Not explosive	Not explosive	Not explosive	Not explosive	Not explosive	
Oxidising properties	N/A	N/A	N/A	N/A	N/A	Oxidising potential	N/A	N/A	
Other information	-	-	-	-	-	Can be corrosive to metals	-	-	

10. STABILITY AND REACTIVITY

Reactivity

May be corrosive to metals (component number 7).

Chemical Stability

Stabile until expiry date stated on label if stored under specified conditions.

Possibility of hazardous reactions

No hazardous reactions at normal usage and storage.

Conditions to avoid

No data available.

Incompatible materials

None

Hazardous decomposition products

None

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

Acute inhalation toxicity LC₅₀ rat: 510 mg/m³, 2 h (refers to pure substance, sulphuric acid, component number 7, IUCLID).

Irritation

Irritating to eyes and skin (component numbers 6 and 7).

Corrosivity

No data available.

Sensitisation

Skin sensitizer due to the content of Kathon CG (components number 2–5).

Repeated dose toxicity

No data available.

Carcinogenicity

No data available.

Mutagenicity

No data available.

Toxicity for reproduction

No data available.

12. ECOLOGICAL INFORMATION

Toxicity

Refers to pure substance, sulphuric acid, component 7, (IUCLID).

LC₅₀ Gambusia affinis (fish): 42 mg/L; 96 h

EC₅₀ Daphnia magna (Water flea): 29 mg/L; 24 h

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

All kit components and tested specimen should be considered as bio hazardous/infectious and should be disposed of in accordance with federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

The product is not classified as dangerous goods.

The product is the character at the same general ground				
	ADR/RID	ADN/ADNR	IMDG	IATA
UN-number	Not regulated	Not regulated	Not regulated	Not regulated
UN prober shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	-	-	-	-
Special precautions for users	-	-	-	-
Transport in bulk according to Annex II of MARBOL 73/78 and the IBC Code	-	-	-	-

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

The product has been labelled in accordance with Regulation (EC) No. 1272/2008 (CLP).

Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

A key or legend to abbreviations and acronyms in the safety data sheet

N/A = Not applicable or no information.

Training advice

Provide adequate information, instruction and training for operators.

See instructions for use for this product.

All material of animal origin has been collected from healthy animals.

The information provided in this MSDS is to information and belief at the date of the publication the best of our knowledge.