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Material Safety Data Sheet (MSDS)

ARG80538 Dengue Virus IgG antibody ELISA Kit

1. Product and Company Identification

Product Catalog No: ARG80538

Product Name: Dengue Virus IgG antibody ELISA Kit

Supplier: Arigo Biolaboratories Corp.

No.22, Ln. 227, Gongyuan Rd., Hsinchu City 300 Taiwan

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2. Composition / Information on Ingredients

Description of the mixture:

Mixture of nonhazardous substances, with additions listed below.

Component number	Component name	Volume	Safety Information
1	Antigen-coated microplate	8 X 12 strips	No hazards
2	Calibrator A (Negative Control)	2ml	Contains 0.1 % Kathon™
3	Calibrator B (Cut-off Standard)	3ml	Contains 0.1 % Kathon™
4	Calibrator C (Weak Positive Control)	2ml	Contains 0.1 % Kathon™
5	HRP-conjugated antibody	20ml	Contains 0.2 % Bronidox L
6	Sample Diluent	100ml	Contains 0.1 % Kathon™
7	20X Wash buffer	50ml	Contains 0.1 % Bronidox L after dilution
8	TMB substrate	15ml	Contains 3,3',5,5'-tetramethylbenzidine (TMB)
9	STOP solution	15ml	Contains 0.2M H ₂ SO ₄

Hazardous ingredients:

Chemical name	CAS No.	Amount in	Classification according to		Classification according
	(EC No.)	the mixture	Regulation (EC) No 1272/2008 [CLP]		to Directive 67/548/EEC
	[Index No.]		(related to the concentrated form)		(related to the
			Hazard class/	Hazard-	concentrated form)
			Hazard categories	statement	
Kathon™ CG*	55965-84-9 ()	< 0,0015 %	Acute Tox. 3	Н331	T; R23/24/25
	[613-167-00-5]		Acute Tox. 3	H311	C; R34 R43
			Acute Tox. 3	H301	N; R50-53
			Skin Corr. 1B	H314	
			Skin Sens. 1	Н317	
			Aquatic Acute 1	H400	

			Aquatic Chronic 1	H410	
* Proclin 300 and Kathon CG are mixtures of substances, amongst others including the components 5-chloro-2-methyl-4-					
isothiazolin- 3-one (CIT) [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (MIT) (3:1)					
sulphuric acid	7664-93-9 (231-	< 5.0 %	Skin Corr. 1A	H314	C; R35
%	639-5) [016-				
	020-00-8]				
Bronidox L	30007-47-7	< 0.01%	Acute	-	Xn; R22,R38
	(250-001-7) [-]				

Full text of R-, and H-phrases: see section 16.

3. Hazards Identification

Classification of the substance or mixture

Product is **not classified as hazardous** according to the European Regulation 67/548/EEC and 1999/45/EC or 1272/2008/EC.

Label elements

No labelling required.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

4. First Aid Measures

Description of first aid measures

General information	No special measures required.
Following inhalation	Supply fresh air; consult doctor in case of complaints.
Following skin contact	Wash with plenty amounts of water.
Following eye contact	Rinse opened eye for several minutes under running water.
Following swallowing	If symptoms persist consult doctor.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing agents:

No restriction; use any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media:

None

Special hazards arising from the substance or mixture

Hazardous combustion products:

No further relevant information available.

Advice for firefighters

No special measures required.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use appropriate personal protective equipment.

Environmental precautions

Dilute with plenty of water.

Do not allow to enter surface or ground water.

Methods and material for containment and cleaning up

Absorb with liquid-binding material.

Dispose contaminated material as waste according to section 13.

Reference to other sections

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

7. Handling and Storage

Precautions for safe handling

- Use all reagents in accordance with the relevant instruction for use.
- Observe laboratory safety regulations.
- Do not eat, drink, smoke or apply cosmetics in areas where kit reagents are handled.
- Wear disposable latex gloves when handling reagents.
- Handling should be done in accordance with the procedures defined by an appropriate national biohazard safety guideline or regulation.

Conditions for safe storage, including any incompatibilities

- No special requirements.
- Store all reagents as directed in the relevant instruction for use.

Specific end use

For professional in vitro diagnostic use only.

8. Exposure Controls / Personal Protection

Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls

Respiratory protection: Not required.

Hand protection: Protective gloves.

Eye protection: Goggles recommended during aspiration, dispensing or refilling.

Skin protection: Lab coat.

9. Physical and Chemical Properties

Information on basic physical and ch	nformation on basic physical and chemical properties					
	Calibrator	Enzyme	Substrate	Stop Solution		
		Conjugate	Solution	•		
Appearance						
The physical state	Liquid					
Colour	diverse (has no influence to the properties of the mixture)					
Odour	odourless					
Odour threshold		no data ava	ilable			
рН	6.8 - 7.2	6.8	3.6 - 3.8	< 1.0		
Melting point/freezing point	no data available					
Initial boiling point and		no data ava	ilablo			
boiling range	no data available					
Flash point	no data available					
Evaporation rate	no data available					
Flammability (solid, gas)	no data available					
Upper/lower flammability or	no data available					
explosive limits	no data available					
Vapour pressure	no data available					
Vapour density		no data available				
Relative density	no data available					
Solubility(ies) no data		no data ava	ilable			
Partition coefficient: n-	1. 911					
octanol/water	no data available					
Auto-ignition temperature	no data available					
Decomposition temperature	no data available					
Viscosity	no data available					
Explosive properties	no data available					
Oxidising properties	xidising properties no data available					

Other information

No other information available.

10. Stability and Reactivity

Reactivity: No data available.

Chemical stability: No data available.

Possibility of hazardous reactions: No data available.

Conditions to avoid: No conditions known. **Incompatible materials:** No materials known.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological Information

Information on toxicological effects

Acute toxicity: No data available.

Irritation: Due to its low pH value Substrate Solution and Stop Solution are irritant to the eye.

Corrosivity: Sulfuric acid induces tissue injury after contact.

Sensitization: No data available.

Repeated dose toxicity: No data available.

Carcinogenicity: No data available.

Mutagenicity: No data available.

Toxicity for reproduction: No data available.

When used and handled according to specifications, the product does not have any harmful effects to our

experience and the information provided to us.

12. Ecological Information

Toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Results of PBT and vPvB assessment: Not applicable.

Other adverse effects: No further relevant information available.

13. Disposal Considerations

Waste treatment methods

Product:

Recommendation: Dispose of waste according to applicable local, state, and federal regulations.

Uncleaned packaging:

Recommendation: Dispose of waste according to applicable local, state, and federal regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport Information

This product is not subject to official transport regulations.

UN number: None

UN proper shipping name: None
Transport hazard class(es): None

Packing group: None

Environmental hazards: None

Special precautions for user: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15. Regulatory Information

This Safety Data Sheet is according to:

1907/2006/EC: Registration, evaluation and authorization of chemicals regulation (REACH)

1272/2008/EC: Classification, labelling and packaging regulation (CLP, globally harmonized system GHS)

replaces 67/548/EEC and 1999/45/EC, amending 1907/2006/EC

453/2010/EC: Compilation of safety data sheets regulation (SDS), amending 1907/2006/EC

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

No data available.

Chemical safety assessment

Not applicable.

16. Other Information

"H code" and "R Phrases" used in this Safety data sheet

Reg. 1272/2008	Dir. 67/548/EEC	
H301	-	Toxic if swallowed.
H311	-	Toxic in contact with skin.
H314	-	Causes severe skin burns and eye damage.
H317	-	May cause an allergic skin reaction.
Н331	-	Toxic if inhaled.
H400	-	Very toxic to aquatic life.
H410	-	Very toxic to aquatic life with long lasting effects.
	R22	Harmful if swallowed
	R38	Irritating to skin
-	R34	Causes burns.
-	R35	Causes severe 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.
-	R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

$\label{eq:definition} \textbf{Data compared to the previous version altered.}$