

## SAFETY DATA SHEET

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

Product name: Malaria IgG/IgM ELISA

IUPAC name: -

Product number: ELS61252

CAS number: -

Components: (0) Microtiter Plate [MTP]  
(1) TMB Substrate Solution [SUB TMB]  
(2) Enzyme Conjugate [CONJ]  
(3) Washing Buffer, concentrated [WASH BUF]  
(4) Sample Diluent [DIL]  
(5) Controls [CON] [CUT OFF]  
(6) -  
  
(7) Stop Solution [SOLN STOP]

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Concerning safety, the microtiter plate (0) is inoffensive and for this reason not part of this document. Components 1 – 6, due to coincident categorization, are combined as a group and treated and dealt with below. Component 7 (Stop Solution) is dealt with below in a separate safety data sheet.

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

#### Label elements

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

#### A. Components (2), (4) and (5) EUH Statements:

- EUH208: Contains 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.



- EUH210: Safety data sheet available on request.

## A. Component (1) TMB Substrate Solution [SUB TMB]

Reproductive toxicity, Category 1B H360D

Full text of H statements : see section 16

### Adverse physicochemical, human health and environmental effects

May damage the unborn child..

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Danger  
 Hazard statements (CLP) : H360D - May damage the unborn child.  
 Precautionary statements (CLP) : P201 - Obtain special instructions before use.  
 P280 - Wear protective clothing, protective gloves, eye protection, face protection.  
 P308+P313 - IF exposed or concerned: Get medical advice.  
 Extra phrases : Restricted to professional users

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Enzyme immunoassays for the determination of human antibodies against infectious agents. Comprise solvent mixtures with additives.

### TMB Substrate Solution

according to Regulation (EC) No. 1907/2006 (REACH)

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-methyl-2-pyrrolidone substance listed as REACH Candidate (1-Methyl-2-pyrrolidone)	(CAS-No.) 872-50-4 (EC-No.) 212-828-1 (EC Index-No.) 606-021-00-7 (REACH-no) 2119472430-46-xxxx	< 5	Repr. 1B, H360D Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
N-methyl-2-pyrrolidone	(CAS-No.) 872-50-4 (EC-No.) 212-828-1 (EC Index-No.) 606-021-00-7 (REACH-no) 2119472430-46-xxxx	(C >= 10) STOT SE 3, H335

Full text of H-statements: see section 16

## 4. FIRST AID MEASURES

**General:** Remove any clothing soiled by the product.

**If inhaled:** Remove person to fresh air, seek medical advice if breathing becomes difficult.

**In case of skin contact:** Wash off with soap and water.

**In case of eye contact:** Rinse at eyewash station.

**If swallowed:** If swallowed, wash out mouth with water provided person is conscious. Do not induce vomiting. Seek medical advice.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use fire extinguishing methods suitable to surrounding conditions. CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

### Special hazards arising from the substance or mixture

Ambient fire may liberate hazardous vapours. In the event of fire development of hazardous combustion gases or vapours possible. In case of fire, the following gases can be released: Dioxide, carbon monoxide, carbon dioxide, nitrogen oxides.

### Special protective equipment for fire-fighters

Wear self-contained respiratory protective device. Wear fully protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear protective clothing.

### Environmental precautions

Do not allow to enter sewers/ground water or penetrate the soil.

### Methods and materials for containment and cleaning up

Absorb with liquid binding material (sand diatomite, acid binders, universal binders, sawdust). Dispose of the material according to regulations

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes.

### Conditions for safe storage

Recommended storage temperature: 2-8°C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The mixtures do not contain any relevant quantities of materials with critical values that have to be monitored at the working place.

Additional information: The lists valid during the making were used as basis.

N-methyl-2-pyrrolidone (872-50-4)		
EU	Local name	n-Methyl-2-pyrrolidone
EU	IOELV TWA (mg/m <sup>3</sup> )	40 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	20 ppm
EU	Notes	skin
EU	Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU
United Kingdom	Local name	n-Methyl-2-pyrrolidone
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	40 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	20 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
United Kingdom	Regulatory reference	EH40. HSE

## Personal protective equipment

### General protective and hygienic measures

Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Immediately remove all soiled and contaminated clothing.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection (P2, EN 143).

### Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Nitrile rubber, thickness:  $\geq 0.11$  mm (EN 374). The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: Value of the permeation: Level  $\geq 6$  (>480 min.). The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### Eye protection

Tightly sealed chemical goggles (EN 166)

### Skin and body protection

Protective work clothing.

### Hygiene measures

Avoid contact with skin, eyes and clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Property	Calibrators	Substrate Solution	Enzyme Conjugate	Washing Solution	Sample Diluent	Controls
<b>Other information:</b>						
<b>Appearance:</b>						
<b>Form:</b>	fluid	fluid	fluid	fluid	fluid	fluid
<b>Colour:</b>	Yellow	Various	Various	Colorless	Various	Yellow
<b>Odour:</b>	odourless	odourless	odourless	odourless	odourless	odourless
<b>Odour threshold:</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>pH-value at 20°C:</b>	6.3 – 7.5	3.3 – 3.8	3.6 - 3.8	7.0 – 7.4	7.0 – 7.4	6.3 – 7.5
<b>Change in condition:</b>						
<b>Melting point/ Melting range:</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Boiling point/ Boiling range</b>	100 °C	No information available	100 °C	100 °C	100 °C	100 °C
<b>Flash point:</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Flammability (solid, gaseous)</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Ignition temperature:</b>						
<b>Decomposition temperature:</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Self-igniting:</b>	The mixture is not self-igniting	The mixture is not self-igniting	The mixture is not self-igniting	The mixture is not self-igniting	The mixture is not self-igniting	The mixture is not self-igniting
<b>Danger of explosion:</b>	The mixture does not present an explosion hazard	The mixture does not present an explosion hazard	The mixture does not present an explosion hazard	The mixture does not present an explosion hazard	The mixture does not present an explosion hazard	The mixture does not present an explosion hazard
<b>Explosion limits:</b>						
<b>Lower:</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Upper:</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Oxidizing properties</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Vapour pressure at 20 °C:</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Density:</b>						
<b>Density at 20 °C:</b>	No information available	No information available	1 g/cm <sup>3</sup>	No information available	No information available	No information available
<b>Vapour density:</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Evaporation rate:</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Solubility in / Miscibility with water:</b>	Fully miscible	Fully miscible	Fully miscible	Fully miscible	Fully miscible	Fully miscible
<b>Partition coefficient (n-Octanol/Water)</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Viscosity:</b>						
<b>Dynamic:</b>	No information available	No information available	No information available	No information available	No information available	No information available
<b>Kinematic:</b>	No information available	No information available	No information available	No information available	No information available	No information available

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

No information available.

### Materials to avoid

No information available.

### Hazardous decomposition products

No decomposition if used and stored according to specifications.

### Hazardous polymerization

No dangerous decomposition products known

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Quantitative data on the toxicity of the mixtures are not available.

### Primary irritant effect

On the skin: Repeated or prolonged skin contact may cause irritation.

On the eyes: Slight eye irritant upon direct contact.

After inhalation: No irritating effect known.

Sensitization: No sensitizing effects known.

### CMR effects

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: May damage the unborn child.

### Aspiration hazard

No aspiration toxicity classification.

### Specific target organ toxicity – single exposure

The mixtures are not classified as specific target organ toxicant, single exposure.

### Specific target organ toxicity – repeated exposure

The mixtures are not classified as specific target organ toxicant, repeated exposure.

### Additional toxicological information

We have no description of any toxicological symptoms.

### Further information

The product should be handled with the care usual when dealing with chemicals.

### Additional toxicological information

When used and handled according to specifications, the mixtures do not have any harmful effects to our experience and the information provided to us.

## 12. ECOLOGICAL INFORMATION

### Toxicity

Quantitative data on the ecological effect of the mixtures are not available.



## Persistence and degradability

No data available

## Bioaccumulative potential

No data available

## Mobility in soil

No data available. Do not allow to enter waters, sewers or soil

## PBT and vPvB assessment

Not applicable

## Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

This material and its container must be disposed of as hazardous waste. The disposal is regionally differently regulated; therefore, the kind of disposal is to be inquired at the responsible authorities.

### Contaminated packaging

Disposal according to official regulations.

## 14. TRANSPORT INFORMATION

Not dangerous goods, no transport limitations.

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## 16. OTHER INFORMATION

None

## 17. REGULATORY INFORMATION

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	N-methyl-2-pyrrolidone
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	TMB Substrate Solution - N-methyl-2-pyrrolidone
30. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Toxic to Reproduction category 1A or 1B (Table 3.1) or Toxic to Reproduction category 1 or 2 (Table 3.2) and listed as follows: Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or Reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5 Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or Reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6	N-methyl-2-pyrrolidone

Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: N-methyl-2-pyrrolidone (EC 212-828-1, CAS 872-50-4)

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations : Take note of Directive 92/85/EC on the safety and health of pregnant workers at work. Take note of Directive 94/33/EC on the protection of young people at work.

National regulations : Take note of Directive 92/85/EC on the safety and health of pregnant workers at work.



**Last update:** 27 March 2019

**Prepared by:** The Native Antigen Company

Although the information, opinions and recommendations contained in this Safety Data Sheet are compiled from sources believed to be reliable, we accept no responsibility for the accuracy, sufficiency, or reliability or for any loss or injury resulting from the use of the information.



## SAFETY DATA SHEET

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

Product name: Dengue Virus IgG ELISA  
Dengue Virus IgM ELISA  
Dengue Virus IgM  $\mu$ -capture ELISA

IUPAC name: -

Product number: ELS61236  
ELS61237  
ELS61238

CAS number: -

Components: (7) Stop Solution [SOLN STOP]

Company: The Native Antigen Company  
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Langford Locks  
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### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

Xi, Irritant

R36/38: Irritating to eyes and skin

#### Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.

#### Information concerning particular hazards for human and environment

The mixture has to be labelled due to the calculation procedure of the „General Classification guideline for preparations of the EU” in the latest valid version.

#### Classification system

The classification is according to the latest editions of the EU lists, and extended by company and literature data.

#### 2.2. Label elements

##### Labeling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation

## Hazard pictograms:



GHS05

**Signal word** Warning.

### Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

### Precautionary statements

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

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

P362 Take off contaminated clothing and wash before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

## 2.3. Other hazards

All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

**PBT** Not applicable.



**vPvB** Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization:** Mixtures

**Description:** Aqueous solution.

### Dangerous components

<b>CAS No.:</b>	7664-93-9	
<b>Description:</b>	Sulfuric acid	
<b>EINECS:</b>	231-639-5	
<b>Index number:</b>	016-020-00-8	
<b>Elemental Formula:</b>	H <sub>2</sub> SO <sub>4</sub>	
<b>Molar Mass:</b>	98,08	
<b>Concentration in mixture:</b>	0.5 M	
<b>Classification according to Directive 67/548/EEC or Directive 1999/45/EC:</b>		C R35
<b>Classification according to Regulation (EC) No 1272/2008:</b>		Met Corr. 1 Skin Corr. 1A H290, H314

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention for self-protection!! Remove any clothing soiled by the product.

## **After Inhalation**

Remove to fresh air. If breathing is difficult, give oxygen. Seek medical advice immediately.

## **After skin contact**

Immediately rinse with water. After massive or prolonged skin contact: Seek medical advice.

## **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

## **After swallowing**

Rinse out mouth and drink a glass of water. Do not induce vomiting. If there is any trouble seek medical help.

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

No further relevant information available.

## **4.3. Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## **5. FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Suitable extinguishing agents**

Use fire extinguishing methods suitable to surrounding conditions. CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### **for safety reasons unsuitable extinguishing agents**

For this mixture no limitations of extinguishing agents are given.

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

Ambient fire may liberate hazardous vapours. In the event of fire development of hazardous combustion gases or vapours possible. In case of fire, the following gases can be released: Sulphur dioxide, carbon monoxide and carbon dioxide.

### **5.3. Important Advice for firefighters**

#### **Protective equipment**

Wear self-contained respiratory protective device. Wear fully protective suit.

## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing. Keep away unprotected persons. Avoid eye or skin contact.

### **6.2. Environmental precautions**

Do not allow to enter sewers/ground water or penetrate the soil.

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

Absorb with liquid binding material (sand diatomite, acid binders, universal binders, sawdust).

Dispose of the material according to regulations.

Ensure adequate ventilation.

### **6.4. Reference to other sections**

See section 7 for information on safe handling.

See section 8 for information on personal protection requirement.

See section 13 for disposal information.

## **7. HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

No special precautions are necessary if used correctly.

### **Information about fire – and explosion protection**

No special measures required.

## 7.2. Conditions for safe storage, including any incompatibilities

### Storage:

#### Requirements to be met by storerooms and receptacles

Store at a cool place. Do not store in corrodible metal. Provide acid-resistant floor.

#### Information about storage in one common storage facility

Store away from foodstuffs.

#### Further information about storage conditions

None.

#### Recommended storage temperature

2-8°C

## 7.3. Specific end use(s)

No further relevant information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Additional information about design of technical facilities

No further data; see item 7.

### 8.1. Control parameters

#### Ingredients with limit values that require monitoring at workplace:

##### 7664-93-9 Sulphuric acid

<b>AGW (Germany):</b>	0.1 E mg/m <sup>3</sup> 1 (I); DFG, EU, H, Y
<b>IOELV (EU):</b>	0.05 mg/m <sup>3</sup>

#### DNEL values (Sulphuric acid):

##### workers

#### long-term exposition – local effects:

<b>Inhalative:</b>	DNEL	0.05 mg/m <sup>3</sup> (worker)
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#### short-term exposition – local effects:

<b>Inhalative:</b>	DNEL	0.1 mg/m <sup>3</sup> (worker)
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#### PNEC values (Sulphuric acid):

<b>PNEC</b>	8.8 mg/L (sewage treatment plant)
	0.002 mg/kg (sea water sediment)
	0.25 mg/L (sea water)
	0.002 mg/kg (sea water sediment)
	0.0025 mg/L (fresh water)

#### Additional information

The lists valid during the making were used as basis.

### 8.2. Exposure controls

#### Personal protective equipment:

##### General protective and hygienic measures

Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Immediately remove all soiled and contaminated clothing.

##### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

##### Respiratory protection

Required when vapors/aerosols are generated.

#### Protection of hands

Protective gloves – The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Material of gloves

Nitrile, thickness:  $\geq 0.11$  mm. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

Value of the permeation: Level  $\geq 6$ . The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection

Tightly sealed goggles.

#### Body protection

Protective work clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Property	Stop Solution (0.5 M Sulphuric acid)
<b>General information</b>	
<b>Appearance:</b>	
Form:	fluid
Colour:	colourless
Odour:	odourless
Odour threshold:	No information available
pH-value:	1
<b>Change in condition:</b>	
Melting point/ Melting range:	No information available
Boiling point/ Boiling range:	100°C
Flash point:	No information available
Flammability (solid, gaseous)	No information available
Ignition temperature:	No information available
Decomposition temperature:	No information available
Self-igniting:	The mixture is not self-igniting
Danger of explosion:	The mixture does not present an explosion hazard
<b>Explosion limits:</b>	
Lower:	No information available
Upper:	No information available
Oxidizing properties	No information available
Vapour pressure at 20 °C:	23 hPa
<b>Density:</b>	
Density at 20 °C:	1,03 g/cm <sup>3</sup>
Vapour density:	No information available
Evaporation rate:	No information available
Solubility in / Miscibility with water:	Fully miscible

Property	Stop Solution (0.5 M Sulphuric acid)
Partition coefficient (n-Octanol/Water)	No information available
<b>Viscosity:</b>	
Dynamic:	No information available
Kinematic:	No information available

## 9.2. Other information

No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

See section 10.3.

### 10.2. Chemical stability

#### Thermal decomposition / conditions to be avoided

No decomposition if used and stored according to specifications.

### 10.3. Possibility of hazardous reactions

Reacts with alkali (lyes).

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known. In case of fire see item 5.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute Toxicity

LD/LC50 values relevant for classification: Quantitative data on the toxicity of this product are not available.

#### Primary irritant effect

On the skin: Irritant to skin and mucous membranes.

**On the eyes:** Irritant.

**After inhalation:** Irritant to skin and mucous membranes.

**Sensitization:** No sensitizing effects known.

#### CMR effects

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

#### Aspiration hazard

No aspiration toxicity classification.

#### Specific target organ toxicity – single exposure:

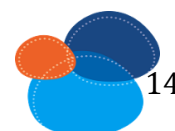
The mixture is not classified as specific target organ toxicant, single exposure.

#### Specific target organ toxicity – repeated exposure:

The mixture is not classified as specific target organ toxicant, repeated exposure.

#### Additional toxicological information:

We have no description of any toxicological symptoms.



## 11.2. Further information

The product should be handled with the care usual when dealing with chemicals.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Aquatic toxicity

Quantitative data on the ecological effect of this product are not available.

### 12.2. Persistence and degradability

No further relevant information available.

### 12.3. Bio accumulative potential

No further relevant information available.

### 12.4. Mobility in soil

No further relevant information available.

#### Ecotoxicological effects

Do not allow to enter waters, sewers or soil.

### 12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### 12.6. Other adverse effects

No further relevant information available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Recommendation

This material and its container must be disposed of as hazardous waste. The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

#### Uncleaned packaging:

#### Recommendation

Disposal according to official regulations.

#### Recommended Cleansing agents

Water, if necessary together with cleansing agents.

## 14. TRANSPORT INFORMATION

### 14.1. UN-Number



ADR, IMDG, IATA: UN2796

### 14.2. UN proper shipping name

ADR: „2796 Battery fluid, acid or Sulphuric acid with not more than 51 percent acid, N.O.S.“

IMDG, IATA: „SULFURIC ACID, N.O.S.“

### 14.3. Transport hazard class(es)

<b>ADR:</b>	
	<b>Class:</b> 8 Corrosive substances <b>Label:</b> 8
<b>IMDG, IATA:</b>	
	<b>Class:</b> 8 Corrosive Substances <b>Label:</b> 8

### 14.4. Packing group

ADR, IMDG, IATA: II

### 14.5. Environmental hazards

Marine pollutant: No.

### 14.6. Special precautions for user

Warning: Corrosive substances.  
 Danger code (Kemler): 80  
 EMS number: F-A, S-B

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information (ADR)	
Limited quantities (LQ)	5 L
Transport category	3
Tunnel restriction code	E

UN „Model Regulation“: 2796 Battery fluid, acid or Sulphuric acid with not more than 51 percent acid, N.O.S., 8, II

## 15. REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substances or mixture

#### National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.  
 Water hazard class: Slightly hazardous for water.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.



## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases:

Phrase	Definition
H315	Causes skin irritation.
H319	Causes serious eye irritation.
R36/38	Irritating to eyes and skin.

## 17. REGULATORY INFORMATION

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	sulphuric acid
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	sulphuric acid

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**Prepared by:** The Native Antigen Company

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