



**Material Safety  
Data Sheet**  
MSDS-MPK01-EN

Creation: March 2000  
Date of review: Aug 2022  
Version: 04

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

**1.1. Product identifier**

Product name: MucoPAP

Catalogue number: MPK01

REACH Number: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS number: -

CE number: -

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

Recommended use: cystic fibrosis newborn screening

**1.3. Details of the supplier of the material safety data sheet**

Company: DYNABIO S.A.  
Luminy Biotech Entreprises  
163, avenue de Luminy - Case 922  
13288 Marseille Cedex 9  
FRANCE

Telephone: +33 4 86 94 85 04 (Monday to Friday 9 am – 5 pm)

E-mail address: [communication@dynabio.eu](mailto:communication@dynabio.eu)

**1.4. Emergency telephone number**


Land	Center	Phone number
Argentina	Centro de Toxicologia Hospital San Roque – Cordoba	+35 11 565 07 101
	Centro Nacional de Intoxicaciones - El Palomar	0800 333 0160 +54 46 58 7777 +54 46 54 6648
	Centro Provincial de Informacion, Asesoramiento y Asistencia Toxicologica - Godoy Cruz	+54 261 4282020
	PREVENTOX, Centro de Informacion y Asesoramiento en Toxicologia Laboral - Autonoma de Buenos Aires	+54 11 156 216 75 74
	SERTOX (Servicio de Toxicologia del Sanatorio de Ninos) - Rosario	+54 341 448 0202
	TOXIMED - Buenos Aires	+54 412 5202/ +53 576 8624
	Unidad de Toxicologia Hospital Gutierrez - Buenos Aires	+54 11 4962 2247
	Unidad Toxicologia del Hospital Gral. de Agudos "Juan A. Fernandez" - Ciudad de Buenos Aires	+54 11 4801 7767
Uruguay	CIAT. Centro de Informacion y Asesoramiento Toxicologico - Montevideo	1722

**SECTION 2: Hazards identification**

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

Components	CAS number	Hazard statement
Range / Internal Control	/	Is not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Anti-hPAP biotinylated antibodies		
Dilution buffer		
Avidin-peroxidase conjugate		
Chromogenic substrate		
Tween 20		
PBS tablet		
8 x 12 coated well plate		
Sulfuric acid 5%	7664-93-9	H290 - may be corrosive to metals

## 2.2. Label elements

Components	Pictogram	Hazard statement
Range / Internal Control	/	Is not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Anti-hPAP biotinylated antibodies		
Dilution buffer		
Avidin-peroxidase conjugate		
Chromogenic substrate		
Tween 20		
PBS tablet		
8 x 12 coated well plate		
Sulfuric acid 5%		H290 - may be corrosive to metals

## 2.3. Other hazards

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Biological hazard

This kit contains rabbit serum with which antibodies are formulated. The biotinylated antibodies, the avidin-peroxidase, the dilution buffer, the ranges and control as well as the plates contain bovine serum albumin.

Serum of animal origin could be infectious and must be considered as a potential biohazard. No known test method can offer assurance that products derived from animals will not be infectious.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

No components need to be disclosed according to the applicable regulations except the acid solution.

Component	Concentration	CAS number	Hazard classes and categories	ATE, LCS Factor and/or M Factor
Sulfuric acid	5%	7664-93-9	Met. Corr. 1 - H290 Skin Corr. 1A - H314	Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %

As a reminder:

- H290 - May be corrosive to metals
- H314 - Causes severe skin burns and eye damage
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General advice**

See a doctor. Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove victim to fresh air. If breathing becomes difficult, give oxygen. If breathing stops, administer artificial respiration. Call a physician.

**Skin Contact**

Flush with copious amounts of water and wash with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician if irritation or discomfort develops.

**Eye Contact**

Flush with copious amounts of water for at least 15 minutes. Check for and remove contact lenses. Assure adequate flushing by separating the eyelids. Call a physician.

**Ingestion**

If swallowed, wash out mouth with water provided person is conscious. Call a physician or poison control. DO NOT induce vomiting. Give nothing to eat or drink.

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

No other important information available

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

Data not available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

In case of fire, risk of release of sulfur oxides, carbon monoxide, carbon dioxide.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6: Accidental release measures**

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

Use personal protective equipment (see section 8). Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**6.2. Environmental precautions**

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections**

For disposal see section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Avoid contact with skin and eyes. Wash hands after handling all materials. Do not drink, eat, smoke, or apply make-up. Do not pipette with the mouth. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature +2°C - +8 °C

**7.3. Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

It does not contain substances with occupational exposure limit values.

**8.2. Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## **Personal protective equipment**

### **Eye/face protection**

Use equipment for eye protection (Safety glasses with side-shields) tested and approved under appropriate government standards such as NIOSH (US) or EN 166.

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.

### **Body Protection**

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **SECTION 9: Physical and chemical properties**

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

#### (a) Appearance

Components	Physical state	Color
Range / Internal Control	Solid	White
Anti-hPAP biotinylated antibodies	Solid	Brown
Dilution buffer	Solid	White
Avidin-peroxidase conjugate	Solid	Pearly white
Chromogenic substrate (TMB)	Liquid	Very light yellow
Sulfuric acid 5%	Liquid	Transparent
Tween 20 (10%)	Liquid	Yellow
PBS tablet	Solid	White
8 x 12 coated well plate	Plastic	Transparent

#### (b) Odour

No data available

#### (c) Odour threshold

No data available

(d) pH

Components	pH
Range / Internal Control	No data available
Anti-hPAP biotinylated antibodies	
Dilution buffer	
Avidin-peroxidase conjugate	
Chromogenic substrate (TMB)	
Tween 20 (10%)	
PBS tablet	
8 x 12 coated well plate	
Sulfuric acid 5%	

(e) Melting point/freezing point	No data available
(f) Initial boiling point and boiling range	No data available
(g) Flash point	Not applicable
(h) Evaporation rate	No data available
(i) Flammability (solid, gas)	No data available
(j) Upper/lower flammability or explosive limits	No data available
(k) Vapour pressure	No data available
(l) Vapour density	No data available
(m) Relative density	No data available
(n) Solubility	Soluble in water
(o) Partition coefficient: n-octanol/water	No data available
(p) Auto-ignition temperature	No data available
(q) Decomposition temperature	No data available
(r) Viscosity	No data available
(s) Explosive properties	No data available
(t) Oxidizing properties	No data available

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Sulfuric acid can be corrosive to metals.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Sulfuric acid is incompatible with metals.

### 10.6. Hazardous decomposition products

If involved in a fire, poisonous gas may be produced by the packaging material.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

(a) acute toxicity	No data available for components except sulfuric acid. Acute oral toxicity: LD50 > 2140 mg/kg - Rat - (Merck KGaA) Acute inhalation toxicity: LC50 = 375 mg/m <sup>3</sup> - Rat - (IUCLID)
(b) skin corrosion/irritation	No data available
(c) serious eye damage/irritation	No data available
(d) respiratory or skin sensitization	No data available
(e) germ cell mutagenicity	No data available
(f) carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
(g) reproductive toxicity	No data available
(h) Specific target organ toxicity-single exposure	No data available
(i) Specific target organ toxicity-repeated exposure	No data available
(j) aspiration hazard	No data available
(k) Additional Information	RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: Ecological information

### 12.1. Toxicity

Do not empty into drains.

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available



#### **12.4. Mobility in soil**

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

#### **12.5. Results of PBT and vPvB assessment**

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **12.6. Other adverse effects**

No data available

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

Must not be released to the environment.

Dispose of in accordance with local regulations and directive on waste and hazardous waste.

Contaminated packaging: dispose of as unused product.

### **SECTION 14: Transport information**

#### **14.1. UN number**

ADR/RID: -

IMDG: -

IATA: -

#### **14.2. UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

#### **14.3. Transport hazard classes**

ADR/RID: -

IMDG: -

IATA: -

#### **14.4. Packing group**

ADR/RID: -

IMDG: -

IATA: -

#### **14.5. Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

#### **14.6. Special precautions for user**

No data available

### **SECTION 15: Regulatory information**

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

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

#### **15.2. Chemical safety assessment**

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

### **SECTION 16: Other information**

#### **Document**

**Creation Date** March 2000

**Revision Date** May 2022

#### **Revision Summary**

March 2019 - Version 2: Improved document readability

May 2022 - Version 3: Formatting according to regulation CE n°1907/2006

August 2022 - version 4: change of contacts: email addresses and website address (section 1.3)

#### **Legend**

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**CAS** - Chemical Abstracts Service

**CE / EC** – Communauté Européenne or European Community

**IARC** - International Agency for Research on Cancer

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**NIOSH** - National Institute for Occupational Safety and Health

**PBT** - Persistent, Bioaccumulative, Toxic

**vPvB** - very Persistent, very Bioaccumulative

**RTECS** - Registry of Toxic Effects of Chemical Substances

**UE / EU** – Union Européenne or European Union

#### **Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dynabio S.A. shall not be held liable for any damage resulting from handling or from contact with the above product.

**End of Material Safety Data Sheet**