

## **Material Safety Data Sheet**

### **SECTION I: Product and Company Identification**

#### **1.1 Product identifiers**

**Product name:** Peroxidase substrate, TMB

**Product Number:** D6301

**Brand:** MEDNA

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

**Identified uses:** Scientific Research and Development.

#### **1.3 Details of the supplier of the safety data sheet**

**Company :** MEDNA Scientific, Inc.

9160 Sterling Street, Suite 110

Irving, TX 75063

Office: 469-250-4424

**Emergency phone number:** 469-250-4424

### **SECTION II: Hazards identification**

#### **GHS - Classification**

**Signal Word** DANGER



#### **Hazard pictograms**

#### **Health hazards**

Acute oral toxicity: Category 4

Acute dermal toxicity: Category 4

Acute Inhalation Toxicity: Vapors Category 4

Specific target organ systemic toxicity (single exposure): Category 1

#### **Physical hazards**

Not Hazardous

#### **Environmental hazards**

Not Hazardous

#### **Hazard Statements**

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled

H370 - Causes damage to organs

#### **Precautionary Statements**

## Prevention

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

P271 - Use only outdoors or in a well-ventilated area

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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

P264 - Wash hands thoroughly after handling

## Response

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

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

P363 - Wash contaminated clothing before reuse

**Storage** Not Applicable

## Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

## Other hazards

Not Applicable

## HMIS

Health 2 \* Chronic Hazard

Flammability 1

Reactivity 0

## SECTION III: Composition/information on ingredients

Component	CAS-No	Common name	EINECS-No	Weight %
Methyl alcohol 67-56-1 ( 20-25 )	67-56-1	-	200-659-6	20-25

Handle all chemicals with caution.

## SECTION IV: First aid measures

### Description of first aid measures

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Immediate medical attention is required.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.

**Notes to Physician** Treat symptomatically.

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

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled H370 - Causes damage to organs

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

None.

**SECTION V: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Unsuitable extinguishing media** No information available.

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

Not known.

**Advice for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**SECTION VI: Accidental release measures**

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

Ensure adequate ventilation

Avoid contact with skin, eyes or clothing

Use personal protection equipment

See Section 8 for more detail

**Environmental precautions**

No special environmental precautions required.

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

Soak up with inert absorbent material.

**Reference to other sections**

See section 8 for more information.

**SECTION VII: Handling and storage**

**Precautions for safe handling**

Always wear recommended Personal Protective Equipment. See Section 8 for more detail. Do not get in eyes, on skin, or on clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator.

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

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store in accordance with local regulations.

**Specific end use(s)**

Use as laboratory reagent. Scientific research and development

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

**Control parameters:**

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Methyl alcohol	200 ppm, 260 mg/m <sup>3</sup>	None	200 ppm	250 ppm

**Engineering parameters:** Ensure adequate ventilation, especially in confined areas

**Exposure Controls:**

**Personal Protective Equipment**

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

**Hand protection** Glove material: Nitrile rubber. with thickness (mm). :5. Break through time. (hours). :1. Recommended glove type has not been tested for use with product. Information is based on professional knowledge.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear laboratory coat for body protection.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** No special environmental precautions required.

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

### **9.1 Basic physical and chemical properties**

- a) Appearance Form: Colorless
- b) Odor: No data available
- c) Odor threshold: No information available
- d) pH: No information available.
- e) Physical state at 20 degrees C: Liquid
- f) Flash point: No information available
- g) Decomposition temperature: No information available.
- h) Flammability limits in air: No information available.
- i) Explosion limits: No information available.
- j) Specific gravity: No information available.
- k) Solubility: No information available.
- l) Evaporation rate: No information available
- m) Vapor Pressure @20°C (kPa): No information available
- n) Vapor density: No data available
- o) VOC Content(%): Not applicable

### **9.2 Other safety information**

No data available

## **SECTION X: Stability and reactivity**

### 10.1 Reactivity

None known.

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

No dangerous reaction known under conditions of normal use.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION XI: Toxicological information

### Information on toxicological effects

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Methyl alcohol	= 6200 mg/kg (Rat)	No data available	=64000ppm(Rat) =22500ppm(Rat)

### Principal Routes of Exposure

**Skin corrosion/irritation** Conclusive but not sufficient for classification

**Serious eye damage/irritation** Conclusive but not sufficient for classification

**Respiratory or skin sensitization** Conclusive but not sufficient for classification

**Specific target organ toxicity (STOT)—singleexposure** Conclusive but not sufficient for classification

**Specific target organ toxicity (STOT)—repeatedexposure** Conclusive but not sufficient for classification

**Carcinogenicity** Conclusive but not sufficient for classification

**Germ cell mutagenicity** Conclusive but not sufficient for classification

**Reproductive toxicity** Conclusive but not sufficient for classification

**Aspiration hazard** Conclusive but not sufficient for classification

## SECTION XII: Ecological information

### 12.1 Toxicity

The environmental impact of this product has not been fully investigated.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

### 12.6 Other adverse effects

No data available

## SECTION XIII: Disposal considerations

## 13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## SECTION XIV: Transport information

### **IATA / ADR / DOT-US / IMDG**

Not regulated in the meaning of transport regulations

**UN number** Not Applicable

**UN proper shipping name** Not Applicable

**Transport hazard class(es)** Not Applicable

**Packing group** Not Applicable

### **Environmental hazards**

Not Applicable

### **Special precautions for user**

Not Applicable

### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not Applicable.

## SECTION XV: Regulatory information

Component	US TSCA
Methyl alcohol 67-56-1 ( 20-25 )	Listed

### US Federal Regulations

#### **SARA 313**

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Methyl alcohol	67-56-1	20-25	1.0

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) This product contains the following HAPs**

Component	CAS-No	Weight %	HAPS data
Methyl alcohol 67-56-1 (20-25)	67-56-1	20-25	Present

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

<b>Chemical Name</b>	<b>CAS-No</b>	<b>Weight %</b>	<b>Category</b>
Methyl alcohol	67-56-1	20-25	Developmental

**WHMIS Hazard Class** Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**SECTION XVI: Other information****Further information**

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 regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDNA Scientific shall not be held liable for any damage resulting from handling or from contact with the above product.

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