



**EAGLE**  
BIOSCIENCES

## MSDS

Description: TBARS Assay for  
Food and Beverages  
Product Number: TBR96-K01  
Size: 1 Kit

Phone: 617-419-2019 Email: [info@eaglebio.com](mailto:info@eaglebio.com) Web: [www.eaglebio.com](http://www.eaglebio.com)

# Material Safety Data Sheet

**Product Name:** TBARS Assay for Food and Beverages

**Product Number:** TBR96-K01

## Distributor

Eagle Biosciences, Inc.  
20A NW Blvd, Suite 112,  
Nashua, NH 03063 USA

## Components:

<u>Description</u>	<u>Quantity</u>
2-Thiobarbituric Acid	2.5 Grams
10% Acid in Dimethylsulfoxide	50.0 mL
10 mM Malonaldehyde Tetrabutylammonium	1.100 mL

This kit and its components are intended for research use only

## 2-Thiobarbituric acid

## Hazards

### OSHA Hazards

No known OSHA Hazards.

### Special Hazard Considerations:

Stench.

**Ingestion:** May be harmful if swallowed.

**Skin Contact:** May cause skin irritation.

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Eye Contact:** May cause eye irritation.

## Composition

Formula:  $C_4H_4N_2O_2S$   
Molecular Weight: 144.15 g/mol  
CAS-No.: 207-985-8

## **Fire Fighting Measures**

The components and materials provided in this kit pose no significant risk in the event of fire. Extinguishing media should be used that is most appropriate to the surrounding areas. It is recommended that firefighters wear protective gear and self-contained breathing apparatus to minimize exposure. Kit components emit toxic fumes under fire conditions.

## **Accidental Release Measures**

Shut off all ignition sources and ventilate the area. Wear appropriate protective gear. Wipe or pick-up materials, place in a sealed container, and dispose of in accordance with Federal, State and Local Government regulations. Wash the spill site thoroughly with soap and water.

## **Handling and Storage**

Store kit as recommended on the product label or each individual component. All components and its contents should be stored in closed containers. This product should be only handled by qualified, trained professionals.

## **Personal Protection**

### **Respiratory protection:**

Respiratory protection is not required.

### **Hand protection:**

Handle with gloves.

### **Eye protection:**

Use eye protection.

## **Stability and Reactivity**

### **Chemical stability:**

Stable under recommended storage conditions. Avoid strong oxidizing agents.

## **Toxicological Information**

### **Acute toxicity:**

LD50 Oral-rat > 5,000 mg/kg

### **Carcinogenicity:**

This product is not identified as a carcinogen.

## **Ecological Information**

### **Toxicity:**

No data available.

### **Transportation Information:**

UN-Number: 3335 Class 9

Not dangerous goods.

## **Acidified Dimethylsulfoxide (DMSO)**

### **Hazards**

#### **OSHA Hazards**

Combustible Liquid, Target organ effect

#### **Target organs:**

Eyes and skin. Avoid skin contact with DMSO containing toxic material or heavy metals. DMSO is readily absorbed through skin and may carry dissolved materials into the body.

**Ingestion:** May be harmful if swallowed.

**Skin Contact:** Avoid skin contact with DMSO containing toxic material or heavy metals. DMSO is readily absorbed through skin and may carry dissolved materials into the body.

**Eye Contact:** May cause eye irritation.

### **Composition**

Formula:	C <sub>2</sub> H <sub>6</sub> OS
Molecular Weight:	78.13 g/mol
CAS-No.:	67-68-5

### **First Aid Measures**

In case of skin contact, wash with soap and water. In case of eye contact, flush with water. In case of ingestion, contact a physician.

### **Fire Fighting Measures**

This component is flammable. Extinguishing media should be used that is most appropriate to the surrounding areas. It is recommended that firefighters wear protective gear and self-contained breathing apparatus to minimize exposure. Kit components emit toxic fumes under fire conditions.

### **Accidental Release Measures**

Shut off all ignition sources and ventilate the area. Wear appropriate protective gear. Wipe or pick-up materials, place in a sealed container, and dispose of in accordance with Federal, State and Local Government regulations. Wash the spill site thoroughly with soap and water.

## Handling and Storage

### Environmental precautions:

Do not let product enter drains.

### Further information:

This product should be only handled by qualified, trained professionals.

Do not expose to sources of ignition.

## Personal Protection

### Hand protection:

Handle with gloves.

### Eye protection:

Use eye protection.

## Stability and Reactivity

### Chemical stability:

Stable under recommended storage conditions. Avoid ignition sources.

## Toxicological Information

### Acute toxicity:

LD50 Oral-rat > 14,500 mg/kg

### Carcinogenicity:

No component of this kit is considered carcinogenic at greater than 0.1% as identified by OSHA.

## Ecological Information

### Toxicity:

Fish LC50 34,000 mg/L

### Transportation Information:

NA-Number: 1993 Class CBL

Not dangerous goods.

# **Malondialdehyde tetrabutylammonium salt**

## **Hazards**

### **OSHA Hazards**

Corrosive

### **Special Hazard Considerations:**

Skin corrosion (Category 1B)

Serious eye damage (Category 1)

**Ingestion:** May be harmful if swallowed.

**Skin Contact:** May be harmful if absorbed through skin. Causes skin burns.

**Inhalation:** May be harmful if inhaled. Material is destructive to mucus membranes and upper airway tract.

**Eye Contact:** Causes eye burns.

## **Composition**

Formula:  $C_{19}H_{39}NO_2$   
Molecular Weight: 315.52 g/mol  
CAS-No.: 100683-54-3

## **Fire Fighting Measures**

The material produces carbon oxides and nitrogen oxides under fire conditions.

## **Accidental Release Measures**

### **Environmental precautions:**

Do not dispose by drain.

## **Handling and Storage**

Store kit as recommended on the product label or each individual component. All components and its contents should be stored in closed containers. This product should be only handled by qualified, trained professionals.

## **Personal Protection**

### **Hand protection:**

Handle with gloves.

### **Eye protection:**

Use eye protection.

## **Stability and Reactivity**

### **Chemical stability:**

Stable under recommended storage conditions. Avoid strong oxidizing agents.

## **Toxicological Information**

### **Acute toxicity:**

No data available

### **Carcinogenicity:**

No data available

## **Ecological Information**

### **Toxicity:**

No data available.

### **Transportation Information:**

UN-Number: 3263 Class 8

Not dangerous goods.

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