# **Safety Data Sheet**

### Catalase



Section 1 Product Description

Product Name: Catalase

**Recommended Use:** Science education applications

Synonyms: Catalase from Bovine Liver; Caperase; E.C. 1.11.1.6; Optidase

**Distributor:** Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**GHS Classification:** 

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards.

Acute Toxicity Oral Contains Acute Toxicity Dermal Contains Acute Toxicity Inhalation Gas

 $100\ \%$  of the mixture consists of ingredient(s) of unknown toxicity  $100\ \%$  of the mixture consists of ingredient(s) of unknown toxicity

Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

Acute Toxicity Inhalation Vapor Contains

100 70 of the mixture seriolote of migrealerit(o) of antihown textory

**Acute Toxicity Inhalation Dust/Mist** 

**Contains** 

100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Catalase
 9001-05-2
 100

Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact:** After contact with skin, wash immediately with plenty of water.

**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: N/A

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is No adverse health affects expected from the clean-up of spilled material. Poses little or no

Released or Spilled: immediate hazard

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Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

# Handling and Storage

Handling:

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Avoid contact with skin and

eyes. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of

water. Harmful if swallowed.

Keep container tightly closed in a cool, well-ventilated place. Storage:

Storage Code: Green - general chemical storage

#### Section 8 Protection Information

**ACGIH OSHA PEL** 

**Chemical Name** (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A

**Control Parameters** 

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

> equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: Nitrile

### Section 9

### Physical Data

Formula: See Section 3 Molecular Weight: N/A

Appearance: Off-white to tan Solid Odor: No data available Characteristic Odor Threshold: No data available

pH: No data available

Melting Point: No data available Boiling Point: No data available

Flash Point: 93 C

Flammable Limits in Air: N/A

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A

Specific Gravity: N/A

Solubility in Water: Slightly Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available Percent Volatile by Volume: N/A

### Section 10

# Reactivity Data

Reactivity: No data available

**Chemical Stability:** Stable under normal conditions.

Conditions to Avoid: None known. **Hazardous Polymerization:** Will not occur

### Section 11

# Toxicitv Data

Ingestion, Skin contact. Routes of Entry

Symptoms (Acute): N/A

**Delayed Effects:** No data available

**Acute Toxicity:** 

**CAS Number** Oral LD50 **Dermal LD50 Inhalation LC50 Chemical Name** No data available 9001-05-2 Not determined Not determined Not determined

Carcinogenicity:

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**IARC** NTP **OSHA Chemical Name CAS Number** No data available 9001-05-2 Not listed Not listed Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: See Section 2

Chronic: Mutation data cited., Not listed as a carcinogen by IARC, NTP or OSHA.

#### Section 12

### **Ecological Data**

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data Persistence: No data **Bioaccumulation:** No data Degradability: No data Other Adverse Effects: No data

**Chemical Name CAS Number Eco Toxicity** 

9001-05-2 N/A

### Section 13

### Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

#### Section 14

### Transport Information

Air - IATA Proper Shipping Name: **Ground - DOT Proper Shipping Name:** Not regulated for air transport by IATA.

#### Section 15

# Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

**Chemical Name** CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)** 

> Number TQ

No data available 9001-05-2 No No No No No

#### **Section 16**

### **Additional Information**

Replaces: 09/03/2014 Printed: 10-29-2015 Revised: 09/09/2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

**ACGIH** American Conference of Governmental NTP National Toxicology Program

Industrial Hygienists **OSHA** Occupational Safety and Health Administration

CAS Chemical Abstract Service Number PEL Permissible Exposure Limit

**CERCLA** Comprehensive Environmental Response, ppm Parts per million

> Compensation, and Liability Act Resource Conservation and Recovery Act **RCRA**

U.S. Department of Transportation Superfund Amendments and Reauthorization Act

DOT SARA

**IARC** International Agency for Research on Cancer Threshold Limit Value TLV

**TSCA** Not Available Toxic Substances Control Act N/A **IDLH** Immediately dangerous to life and health

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