



PO Box 92912  
Rochester, NY 14692-9912  
(845) 339-2202  
397 Venetia Road  
St. Catharines, Ontario L2S 3T5  
915 Florio Lane  
San Luis Obispo, CA 93403-5010

# MATERIAL SAFETY DATA SHEET

MSDS No.: CC0215  
Revision Date: February 19, 2010  
Approved by: James A. Bertsch

MSDS No.: CC0215

## Section 1 Chemical Product and Company Information

Product	CATALASE ENZYME
Synonyms	E.C. 1.11.1.6

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

## Section 2 Hazards Identification

### Emergency Overview

**CAUTION!**  
MAY BE HARMFUL BY INHALATION, INGESTION OR SKIN ABSORPTION.  
MAY CAUSE IRRITATION.

Keep in refrigerator for increased stability. Avoid inhalation. Avoid contact with skin, eyes and clothing. Product may cause sensitization. Target organs: None known.

0 = Minimal	Health	1
1 = Slight	Fire	0
2 = Moderate	Reactivity	0
3 = Serious	Contact	1
4 = Severe		

HMIS \*

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units (ACGIH 2001)
Catalase	9001-05-2	100%	None established.

## Section 4 First Aid Measures

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN CONTACT:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

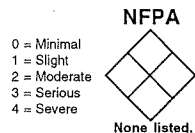
**General information:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear.

**Extinguishing Media:** Carbon dioxide, dry chemical, water spray, alcohol foam.

**Flash Point:** Non-flammable.

**Autoignition temperature:** N/A

**Explosion Limits: Lower:** N/A **Upper:** N/A



## Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

## Section 7 Handling & Storage GENERAL STOP CODE GREEN

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.  
**Handling:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse.  
**Storage:** Store in refrigerator.

## Section 8 Exposure Controls / Personal Protection

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical & Chemical Properties

**Physical state:** Solid.  
**Appearance:** Powder.  
**Odor:** Fermentation odor.  
**pH:** N/A  
**Vapor pressure (mm Hg):** N/A  
**Vapor Density (Air = 1):** N/A  
**Evaporation rate (Butyl acetate = 1):** N/A  
**Viscosity:** N/A

**Boiling point:** N/A  
**Freezing / Melting point:** N/A  
**Decomposition temperature:** N/A  
**Solubility:** Complete.  
**Specific gravity (H<sub>2</sub>O = 1):** N/A  
**Percent volatile (%):** N/A  
**Molecular formula:** N/A  
**Molecular weight:** N/A

## Section 10 Stability & Reactivity

**Chemical stability:** Stable  
**Conditions to avoid:** Excessive temperatures and heat.  
**Incompatibilities with other materials:** None known.  
**Hazardous decomposition products:** None known.  
**Hazardous polymerization:** Will not occur.

## Section 11 Toxicological Information

**Effects of overexposure:** Not expected to be toxic by ingestion. Not expected to irritate eyes. May cause mild skin irritation. Inhalation of enzyme mist/dust may cause allergic respiratory reactions including asthma, in susceptible individuals on repeated exposure. Exercise appropriate procedures to minimize potential hazards.

ORL-RAT LD50: N/A  
IHL-RAT LC50: N/A  
SKN-RBT LD50: N/A

## Section 12 Ecological Information

Data not yet available. Readily biodegradable.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information

**UN/NA number:** N/A  
**Shipping name:** Not Regulated.  
**Hazard class:** N/A  
**Packing group:** N/A  
**Exceptions:** N/A

## Section 15 Regulatory Information

TSCA-listed, EINECS-listed (232-577-1)

## Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards.