



# ZIBO GREEN TRADE CO.,LTD.

ADD: ZIBO ZHOUCUN TEXTILE SCIENCE AND TECHNOLOGY FIVE WEST 18

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## CATALASE

### ---GR-M109

#### MATERIAL SAFETY DATA SHEET (MSDS)

<b>I. IDENTIFICATION OF THE SUBSTANCE</b>	
Trade name	Catalase GR-M109
Description	Deoxidize enzyme
Chemical characterization	Catalase
CAS No.	9001-05-2
CAS Name	Catalase
Color	Brown
Appearance	liquid
Supplier	Zibo Green Trade Co.,Ltd .
<b>2. HAZARDS IDENTIFICATION</b>	
<p>On the basis of available data, the product is non-toxic and biodegradable. However, unnecessary contact with the product should be avoided. Long term exposure to protein based products such as catalase may cause allergic reaction in sensitized individuals. Keep out of reach of children. The usual safety measures done when handling chemicals should be taken.</p>	
<b>3. FIRST AID MEASURES</b>	
Skin contact	Wash hands with warm soapy water after handling. Get medical advice when symptoms occur.
Eye contact	Rinse eyes with plenty of water, at least for 15 minutes then get medical attention at once.
Inhalation	Remove from exposure and move to fresh air. If symptoms of irritation or sensitization occur (ex. shortness of breath, transient or acute coughing), call a doctor.

Ingestion	Rinse mouth and throat thoroughly. Drink plenty of water.
<b>4. FIRE-FIGHTING MEASURE</b>	
Flash point	Not exhibited
Combustibility	Not combustible
Protection against Fire and Explosions	No special requirements
Suitable Fire Extinguishing media	All regular extinguishing materials (foam, carbon dioxide, dry chemicals or water spray)
Non-suitable media	None
Special Exposure hazards	None
<b>5. ACCIDENTAL RELEASE MEASURES</b>	
Spilled preparation should be removed immediately. Flush spill area with plenty of water. Remove and wash contaminated clothing.	
<b>6. HANDLING AND STORAGE</b>	
Handling	The usual precautions when handling chemicals should be observed. When using the product, do not eat, drink or smoke. Avoid spilling, skin and eye contact. Ensure good ventilation in the room when handling the product.
Storage	Store in a cool, dry place and away from direct sunlight. Store 0-25°C airtight container.
<b>7. EXPOSURE CONTROL/PERSONAL PROTECTION</b>	
Engineering controls	Provide eye wash station and safety shower. Mechanical ventilation or local exhaust ventilation may be required.
Hand protection	Use PVC/Rubber gloves
Eye protection	Wear fitting safety goggles, protective glasses or eye shield
Clothing	Use suitable protective clothing
Respiratory	Not required under normal conditions of use
<b>8. PHYSICAL AND CHEMICAL PROPERTIES</b>	
Appearance	Brown liquid
pH, Boiling point, Ignition temperature, Vapor pressure, Density and Solubility are not relevant to safety.	

<b>9. STABILITY AND REACTIVITY</b>	
Stability	Stable under recommended storage and handling conditions.
Conditions to avoid	Elevated temperatures of storage and direct sunlight
Materials to avoid	None
Hazardous decomposition products	None
<b>10. TOXICOLOGICAL INFORMATION</b>	
Inappropriate handling may cause sensitization and allergic reactions in sensitized individuals. Prolonged skin contact may cause irritation.	
<b>11. DISPOSAL CONSIDERATION</b>	
No special disposal method is required. Dispose of in accordance with current local authority regulations and requirements.	
<b>12. TRANSPORT INFORMATION</b>	
UN No.	Not applicable
Road/rail	Not applicable
Sea	Not applicable
Air	Not applicable
<b>13. OTHER INFORMATION</b>	
<p>The information contained in this Material Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of the information and any recommendations or suggestions are made without warranty or guarantee. The information only concerns the above product a supplied and may not be valid if used with other product(s) or in any process. Since the conditions of use are beyond the control of our Company, it is the responsibility of the user to determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications.</p>	
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