

# MATERIAL SAFETY DATA SHEET

The purpose of this Material Safety Data Sheet is to provide health and safety information of this product. Please read the data provided carefully and ensure that users of this product comply fully with their country's relevant regulations

## SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Date of Issue : 1st September 2004  
Product Details  
Product Name: Heinebio  
Chemical formula: CONCENTRATED BIOLOGICAL ACTIVE  
Manufacturer's code: Q/HEINEBIO/CBA/002  
Use: As Concentrated Biological Active  
Manufacturer's Name: Heinebio Singapore Pte Ltd  
Manufacturer's Address: 20 Woodlands Link #04-27 Woodlands East Industrial Estate Singapore 738733  
Tel: (65) 6853 0427 Fax: (65) 6853 0471 Email: sales@heinebio.com

## SECTION 2 : COMPOSITION OF / INFORMATION ON INGREDIENT

Ingredients	CAS No:	%
Polyethylene Glycols	9016-45-9	>10
Bacterial/Enzymes	9073-77-22	>25
Isopropyl Alcohol	67-63-0	>5
Fragrance	NE	<5
Dyes/Colours	3844-45-9	<1

## SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Flammability:	Not flammable
Colour:	Blue	Oxidising Properties:	Not oxidising
Odour:	Fragrant	Vapour Pressure:	H <sub>2</sub> O
pH:	7 - 8	Relative Density:	1.0
Boiling Point/Range (oC):	100°C	Water Solubility:	Miscible

## SECTION 4 : HAZARD IDENTIFICATION

Classification: The preparation is not classified as dangerous for supply. Biological agents belonging to Groups 2, 3 and 4 are absent.  
Symbol: Risk Phrases: Main Hazard: No critical hazards

## SECTION 5 : FIRST AID MEASURES

Exposure By:	Symptom:	Treatment:
Eye Contact	Irritation	Irrigate eye thoroughly with water. Obtain medical attention if symptoms persist.
Skin Contact	Irritation	Wash with soap and water.
Inhalation	Irritation of the respiratory tract:	Inhalation is unlikely under normal conditions of use. If it occurs, remove from exposure, keep warm and obtain medical attention.
Ingestion	Irritation of digestive system nausea, vomiting, diarrhoea	Ingestion is unlikely under normal conditions of use. If it occurs, wash out mouth thoroughly with water and obtain medical attention.

## SECTION 6 : FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray. The product is not flammable but solid residues produced by evaporation may give rise to toxic fumes.  
Special Exposure Hazards: Avoid skin and eye contact  
Special Protective Equipment: Wear gloves, chemical safety glasses and other personal protective equipment appropriate to the situation.

## SECTION 7 : ACCIDENTAL RELEASE MEASURE

Personal Precautions: Wear gloves, chemical safety glasses and other personal protective equipment appropriate to the quantity released.  
Environmental Precautions: Contain and absorb with sand or other inert absorbent. Transfer to containers or disposal as indicated below (Section 13).  
Decontamination Procedures: Flush spillage area with water and run to waste if local regulations permit.  
Otherwise prevent run-off to drainage system, collect and dispose of washings.

## SECTION 8 : HANDLING AND STORAGE

Handling: Avoid contact of liquid with eyes and skin  
Storage: In a cool, dry place. Do not freeze. Keep container tightly closed when not in use.

## SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational Exposure Limits: Not relevant to this aqueous solution.  
Engineering Control Measures: Not required.  
Recommended Personal Protection: Eyes - Chemical safety goggles Hands - Wash hands thoroughly after use

## SECTION 10 : STABILITY AND REACTIVITY

Stability: Stable  
Conditions to Avoid: Temperatures below 0°C  
Materials to Avoid: Strong alkalis, acids or strong oxidising agents and bactericidal compounds  
Hazardous Decomposition Products: Thermal decomposition may produce oxides of carbon

## SECTION 11 : TOXICOLOGICAL INFORMATION

Eyes: Will cause mild irritation and redness  
Skin: May cause mild irritation on prolonged contact. Contact with open wounds or broken skin should be avoided.  
Inhalation: May irritate nose and upper respiratory tract.  
Ingestion: May cause nausea, vomiting and diarrhoea.  
Chronic Health Effects: Other:

## SECTION 12 : ECOLOGICAL INFORMATION

Environmental Assessment: Preparation may be harmful to fish. Release into surface waters should be avoided unless well diluted.  
Mobility: Preparation is water miscible.  
Persistence and Degradability: Preparation is unlikely to be persistent and is expected to degrade safely.  
Bioaccumulation Potential: Low Ecotoxicity:

## SECTION 13 : DISPOSAL CONSIDERATIONS

All disposal must be via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.  
Unused Product: As above Used/Contaminated Product: As above  
Empty Container: Wash out thoroughly with plenty of water and return to supplier. Otherwise as substance.

## SECTION 14 : TRANSPORT INFORMATION

The product is not classified as hazardous from transportation UN/SI Number: Not required.

## SECTION 15 : OTHER INFORMATION

General Information: Before using any product, ensure that you read and understand its label. The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other materials or for any other use other than that specified herein. Heinebio is not liable for the use of this product for any purpose than that described in this safety data sheet. It is the user's responsibility to satisfy himself/herself as to the suitability in completeness of such information for his/her own particular use.

## SECTION 16 : CONTACT POINT

In case of emergency, contact : Heinebio Singapore Pte Ltd  
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Tel: (65) 6853 0427 Fax: (65) 6853 0471 Email: sales@heinebio.com  
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