

## **MATERIAL SAFETY DATA SHEET**

Revision Date : 2017-01-01

Product name:

### 1. IDENTIFICATION OF THE SUBSTANCE/TREPARATION AND THE COMPANY/UNDERTAKING

Collagenase

Supplier:		BINBO BIOLOGICAL CO.,LTD	
	FENGCHENG C	NE ROAD	
	Xi'an China		
Tel:	+86-134882145	11	
161.	100-104002143	11	
2.COM	POSITION/INFORMATION ON INGRE	DIENTS	
Components	ACGIH Exposure Limits:	OSHA Exposure Limits:	
Collagenase	None	None	
	3.HAZARDS IDENTIFICATION		
EMERGENCY OVERVIEW: May cau	se skin irritation and/or dermatitis		
Principle routes of exposure:	Skin		
Inhalation:	May cause irritat	ion of respiratory tract	
Ingestion:	May be harmful i	f swallowed	
Skin contact:	May cause allerg	gic skin reaction	
Eye contact:	Avoid contact wi	th eyes	
Statements of hazard MAY CAUSE	ALLERGIC SKIN REACTION.		
Statements of Spill of Leak Label	Eliminate all ignition sources. Absorb a	and/or contain spill with inert materials	
(e.g., sand, vermiculite). Then place i	n appropriate container. For large spill	s, use water spray to disperse vapors,	
flush spill area. Prevent runoff from e	ntering waterways or sewers.		
	A FIDOT AID METALLINES		
	4. FIRST AID MEASURES		



General advice: In the case of accident or if you fell unwell, seek medical

advice immediately (show the label where possible).

Move to fresh air, call a physician immediately.

Inhalation: Rinse immediately with plenty of water and seek medical

advice

Do not induce vomiting without medical advice.

Skin contact: In the case of contact with eyes, rinse immediately with

**Ingestion:** plenty of water and seek medical advice.

**Eye contact:** No information available

Protection of first - aiders:

Medical conditions aggravated by exposure: None known

### **5.FIRE-FIGHTING MEASURES**

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam

**Specific hazards:**Burning produces irritant fumes.

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

Flash point: and full protective gear

Autoignition temperature:Not determinedNFPA ratingNot determined

NFPA Health: 1
NFPA Flammability: 1
NFPA Reactivity: 0

## **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions:

Use personal protective equipment.

Environmental precautions:

Prevent product from entering drains.

Methods for cleaning up: Sweep up and shovel into suitable containers for

disposal

## 7. HANDLING AND STORAGE



Storage:

Room temperature

Handling:

Use only in area provided with appropriate exhaust

ventilation.

Safe handling advice: Wear personal protective equipment.

Incompatible products: Oxidising and spontaneously flammable products

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

Skin and body protection: Usual safety precautions while handling the product will

provide adequate protection against this potential effect.

Safety glasses with side-shields

**Eye protection:** PVC or other plastic material gloves

Hand protection: Handle in accordance with good industrial hygiene and

**Hygiene measures:** safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point/range:No Data available at this time.Boiling point/range:No Data available at this time.

Density:No data availableVapor pressure:No data availableEvaporation rate:No data availableVapor density:No data availableSolubility (in water):No data availableFlash point:Not determinedAutoignition temperature:Not determined

### 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

Polymerization: None under normal processing.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours

such as carbon oxides.



Materials to avoid: Strong oxidising agents.

Conditions to avoid: Exposure to air or moisture over prolonged periods.

#### 11. TOXICOLOGICAL INFORMATION

#### **Product information**

#### **Acute toxicity**

Components	RTECS Number:	Selected LD50s and LC50s
Collagenase	Not Available	Not Determined

**Chronic toxicity:** Chronic exposure may cause nausea and vomiting,

higher exposure causes unconsciousness.

**Local effects:** Symptoms of overexposure may be headache,

dizziness, tiredness, nausea and vomiting.

Specific effects: May include moderate to severe erythema (redness)

and moderate edema (raised skin), nausea, vomiting,

headache

Primary irritation:

Carcingenic effects:

No data is available on the product itself.

No data is available on the product itself.

No data is available on the product itself.

Reproductive toxicity:

No data is available on the product itself.

## 12. ECOLOGICAL INFORMATION

Mobility:No data availableBioaccumulation:No data availableEcotoxicity effects:No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.

Components	U.S. DOT -Appendix B -	U.S. DOT -Appendix B -	United Kingdom – The red
	Marine Pollutants	Severe Marine Pollutants	List:
Collagenase	Not Listed	Not Listed	Not Listed

Components	Germany VCI (WGK)	World Health Organization	Ecotoxicity - Fish Species
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		(WHO) - Drinking Water	Data
Collagenase	Not Listed	Not Listed	Not Listed

Components	Ecotoxicity -	- Freshwater	Ecotoxicity	-	Microtox	Ecotoxicity -	Water	Flea
	Algae Data		Data			Data		
Collagenase	Not Listed		Not Listed			Not Listed		

Components	EPA – ATSDR Priority List	EPA - HPV Challenge	California - Priority Toxic
		<b>Program Chemical List</b>	Pollutants
Collagenase	Not Listed	Not Listed	Not Listed

### 13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Waste disposal must be in accordance with

appropriate Federal, State and local regulations. This product, if unaltered by use, may be disposed of treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be

hazardous.

**Contaminated packaging:**Do not re-use empty containers.

14. TRANSPORT INFFORMATION

UN/ld No: Not regulated

DOT

Proper shipping name: Not Regulated

TGD(Canada)

WHMIS hazard class: Non - controlled

IMDG/IMO

IMDG – Hazard Classifications Not Applicable

Components	U.S. DOT –Appendix A Table 1 – Reportable Quantities
Collagenase	Not Listed



Components	U.S. DOT –Appendix B – Marine Pollutants	U.S. DOT -Appendix B - Severe Marine
		Pollutants
Collagenase	Not Listed	Not Listed

#### IMO - labels:

15. REGULATORY INFOTMATION	
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### **International Inventories**

Components	Inventory – United States TSCA – Sect.8(b)	Canada DSL Inventory List -
Collagenase	Not Listed	Not Listed

### **U.S. regulations:**

Components	California p	roposition	Massachusetts	New Jersey Right to	Pennsylvania
	65 -		Right to Know List:	Know List:	Right to Know
					List:
Collagenase	NA		Not Listed	Not listed	Not listed

Components	Florida substance		Rhode Island Right	Illinois - Toxic Air	Connecticut -
	List:		to Know List:	Contaminants	Hazardous Air
Collagenase	Not Listed		Not Listed	Not listed	Not listed

Components	SSARA	313	CERCLA/SARA	-	NTP:	IARC:
	Emission		Section	302		
	reporting/Toxic		Extremely Haz			
	Release	of				
	Chemicals					
Collagenase			Not Listed		Not listed	Not listed

### **16. OTHER INFORMATION**

Prepared by: Health & Safety

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End of safety data sheet