

## **MATERIAL SAFETY DATA SHEET**

Revision Date : 2017-01-01

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

Atenolol

Product name:		Atendioi		
Supplier:	BINBO BIOLOGICAL CO.,LTD			
	FENGCHENC	ONE ROAD		
	Xi'an			
	China			
Tel:	+86-1348821	4511		
2.CO	MPOSITION/INFORMATION ON ING	REDIENTS		
Components	ACGIH Exposure Limits:	OSHA Exposure Limits:		
Atenolol	None	None		
	3.HAZARDS IDENTIFICATION			
EMERGENCY OVERVIEW: May c	3.HAZARDS IDENTIFICATION ause skin irritation and/or dermatitis			
EMERGENCY OVERVIEW: May co				
·	ause skin irritation and/or dermatitis Skin	itation of respiratory tract		
Principle routes of exposure:	ause skin irritation and/or dermatitis Skin May cause irr	itation of respiratory tract rul if swallowed		
Principle routes of exposure: Inhalation:	ause skin irritation and/or dermatitis Skin May cause irr May be harmi	•		
Principle routes of exposure: Inhalation: Ingestion:	ause skin irritation and/or dermatitis Skin May cause irr May be harmi	ul if swallowed ergic skin reaction		
Principle routes of exposure: Inhalation: Ingestion: Skin contact:	ause skin irritation and/or dermatitis Skin May cause irr May be harmt May cause all Avoid contact	ul if swallowed ergic skin reaction		
Principle routes of exposure: Inhalation: Ingestion: Skin contact: Eye contact: Statements of hazard MAY CAUS	ause skin irritation and/or dermatitis  Skin  May cause irr  May be harmi  May cause all  Avoid contact  SE ALLERGIC SKIN REACTION.	ul if swallowed ergic skin reaction		
Principle routes of exposure: Inhalation: Ingestion: Skin contact: Eye contact: Statements of hazard MAY CAUS	ause skin irritation and/or dermatitis  Skin  May cause irr  May be harm!  May cause all  Avoid contact  SE ALLERGIC SKIN REACTION.  el Eliminate all ignition sources. Absor	ul if swallowed ergic skin reaction with eyes		



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
Atenolol	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.

Mutagenic effects:

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:	
Atenolol	Not Listed	Not Listed	Not Listed	

Components	Germany VCI (WGK)	World Health Organization	Ecotoxicity – Fish Species
	••••••		=0010311011J 1 1011 0 po 0100



		(WHO) - Drinking Water	Data
Atenolol	Not Listed	Not Listed	Not Listed

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

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



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

#### IMO - labels:

15. REGULATORY INFOTMATION

### **International Inventories**

Components	Inventory – United States TSCA – Sect.8(b)	Canada DSL Inventory List -
Atenolol	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:
Atenolol	NA		Not Listed	Not listed	Not listed

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

### **16. OTHER INFORMATION**

Prepared by: Health & Safety

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End of safety data sheet