

## **MATERIAL SAFETY DATA SHEET**

Revision Date : 2017-01-01

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

Product name:

Supplier:

Homoharringtonine

BINBO BIOLOGICAL CO.,LTD FENGCHENG ONE ROAD Xi'an China +86-13488214511

Tel:

#### 2.COMPOSITION/INFORMATION ON INGREDIENTS

Components	Components ACGIH Exposure Limits:	
Homoharringtonine	None	None

#### **3.HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW: May cause skin irritation and/or dermatitis

Principle routes of exposure:	Skin
Inhalation:	May cause irritation of respiratory tract
Ingestion:	May be harmful if swallowed
Skin contact:	May cause allergic skin reaction
Eye contact:	Avoid contact with eyes

Statements of hazard MAY CAUSE ALLERGIC SKIN REACTION.

**Statements of Spill of Leak Label** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

#### 4. FIRST AID MEASURES

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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: Skin contact:	Rinse immediately with plenty of water and seek medical advice Do not induce vomiting without medical advice. 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: Specific hazards: Special protective equipment for firefighters:	Use dry chemical, CO2, water spray or "alcohol" foam Burning produces irritant fumes.
Flash point:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Autoignition temperature: NFPA rating	Not determined
NFPA Health: NFPA Flammability: NFPA Reactivity:	1 1 0

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Environmental precautions: Methods for cleaning up: Use personal protective equipment. Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal

## 7. HANDLING AND STORAGE



#### Storage:

Room temperature **Handling:** 

Safe handling advice: Incompatible products: Use only in area provided with appropriate exhaust ventilation.

Wear personal protective equipment. 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 available
Vapor pressure:	No data available
Evaporation rate:	No data available
Vapor density:	No data available
Solubility (in water):	No data available
Flash point:	Not determined
Autoignition 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
Homoharringtonine	Not Available	Not Determined

Chronic toxicity: Chron	nic exposure may cause nausea and vomiting,
highe	r exposure causes unconsciousness.
Local effects: Symp	toms of overexposure may be headache,
dizzin	ness, tiredness, nausea and vomiting.
Specific effects: May i	include moderate to severe erythema (redness)
and n	noderate edema (raised skin), nausea, vomiting,
heada	ache.
Primary irritation: No da	ata is available on the product itself.
Carcingenic effects: No da	ata is available on the product itself.
Mutagenic effects: No da	ata is available on the product itself.
Reproductive toxicity: No da	ata is available on the product itself.

#### **12. ECOLOGICAL INFORMATION**

Mobility:	No data available
Bioaccumulation:	No data available
Ecotoxicity 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:
Homoharrington	Not Listed	Not Listed	Not Listed
ine			



Components	Germany VCI (WGK)	World Health Organization (WHO) – Drinking Water	Ecotoxicity – Fish Species Data
Homoharrington	Not Listed	Not Listed	Not Listed
ine			

Algae Data Data Data   Homoharrington Not Listed Not Listed	Components	Ecotoxicity	-	Freshwater	Ecotoxicity	-	Microtox	Ecotoxicity – Water Flea
		Algae Data			Data			Data
	Homoharrington	Not Listed			Not Listed			Not Listed
ine	ine							

Components	EPA – ATSDR Priority List	EPA – HPV Challenge	California – Priority Toxic
		Program Chemical List	Pollutants
Homoharrington	Not Listed	Not Listed	Not Listed
ine			

## **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/Id 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
Homoharrington	Not Listed
ine	

Components	U.S. DOT – Appendix B – Marine Pollutants	U.S. DOT –Appendix B – Severe Marine
		Pollutants
Homoharrington	Not Listed	Not Listed
ine		

IMO – labels:

## **15. REGULATORY INFOTMATION**

## International Inventories

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

## U.S. regulations:

Components	California proposition 65 -	Massachusetts Right to Know List:	New Jersey Right to Know List:	Pennsylvania Right to Know List:
Homoharringt onine	NA	Not Listed	Not listed	Not listed

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

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



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#### **16. OTHER INFORMATION**

## Prepared by: Health & Safety

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End of safety data sheet