

MATERIAL SAFETY DATA SHEET

Revision Date: 2017-01-01

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

Product name:	Calcium bis(2-hy	Calcium bis(2-hydroxy-4-(methylthio)butyrate)			
Supplier:	BINBO BIOLOG	BINBO BIOLOGICAL CO.,LTD			
	FENGCHENG C	ONE ROAD			
	Xi'an				
	China				
Tel:	+86-134882145	11			
2.COM	POSITION/INFORMATION ON INGRE	DIENTS			
Components	ACGIH Exposure Limits:	OSHA Exposure Limits:			
Calcium					
bis(2-hydroxy-4-(methylthio)butyrat	None	None			
e)					
	3.HAZARDS IDENTIFICATION				
EMERGENCY OVERVIEW: May cau	se skin irritation and/or dermatitis				
Principle routes of exposure:	Skin				
Inhalation:	May cause irritat	May cause irritation of respiratory tract			
Ingestion:	May be harmful	May be harmful if swallowed			

Statements of hazard MAY CAUSE ALLERGIC SKIN REACTION.

Skin contact:

Eye contact:

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.

May cause allergic skin reaction

Avoid contact with eyes

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 determined

NFPA rating Not 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
Calcium	Not Available	Not Determined
bis(2-hydroxy-4-(methylthio)butyrat		
e)		

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:
Calcium	Not Listed	Not Listed	Not Listed
bis(2-hydroxy-4			
-(methylthio)but			
yrate)			

Components	Germany VCI (WGK)	World Health Organization	Ecotoxicity - Fish Species
		(WHO) – Drinking Water	Data
Calcium	Not Listed	Not Listed	Not Listed
bis(2-hydroxy-4			
-(methylthio)but			
yrate)			

Components	Ecotoxicity	-	Freshwater	Ecotoxicity	-	Microtox	Ecotoxicity - Water Flea
	Algae Data			Data			Data
Calcium	Not Listed			Not Listed			Not Listed
bis(2-hydroxy-4							
-(methylthio)but							
yrate)							

Components	EPA – ATSDR Priority List	EPA - HPV Challenge	California - Priority Toxic
		Program Chemical List	Pollutants
Calcium	Not Listed	Not Listed	Not Listed
bis(2-hydroxy-4			
-(methylthio)but			
yrate)			

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.



-(methylthio)but

yrate)

滨渤生物科技有限公司 Binbo Biological Co., Ltd

	14. TRANSPORT IN	FFORMATION
UN/Id No:	1	Not regulated
DOT		
Proper ship	oping name:	Not Regulated
TGD(Canada)		
WHMIS haz	and class:	Non - controlled
VVIIIVIIS IIAZ	aru ciass.	Norr - Controlled
IMDG/IMO		
IMDG – Haz	ard Classifications	Not Applicable
0	HO DOT Assessed A Table 4 To	and a late of the constraints and
Components	U.S. DOT –Appendix A Table 1 – Repo	priable Quantities
Calcium	Not Listed	
bis(2-hydroxy-4		
-(methylthio)but		
yrate)		
Components	U.S. DOT –Appendix B – Marine Pollut	
		Pollutants
Calcium	Not Listed	Not Listed
bis(2-hydroxy-4		
-(methylthio)but		
yrate)		
IMO – labels:		
	15. REGULATORY II	NFOTMATION
International Inv	entories	
	1	9(1) 9 I POLI
Components	Inventory – United States TSCA – Sect	
Calcium	Not Listed	Not Listed
bis(2-hydroxy-4		



U.S. regulations:

Components	California proposition 65 -	Massachusetts Right to Know List:	New Jersey Right to Know List:	Pennsylvania Right to Know List:
Calcium	NA	Not Listed	Not listed	Not listed
bis(2-hydroxy				
-4-(methylthio				
)butyrate)				

Components	Florida	substance	Rhode Island Right	Illinois - Toxic Air	Connecticut -
	List:		to Know List:	Contaminants	Hazardous Air
Calcium	Not Listed		Not Listed	Not listed	Not listed
bis(2-hydroxy-4					
-(methylthio)but					
yrate)					

Components	SSARA	313	CERCLA/SARA	-	NTP:	IARC:
	Emission		Section	302		
	reporting/Toxic		Extremely Haz			
	Release	of				
	Chemicals					
Calcium			Not Listed		Not listed	Not listed
bis(2-hydroxy-4-						
(methylthio)buty						
rate)						

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of safety data sheet