

MATERIAL SAFETY DATA SHEET

Revision Date: 2017-01-01

Tel:

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

Product name:	3-methyl-2-oxovalerate(2-hydroxy-4-(methylthio)butyl	
Troduct name.	ate)	
Calcium		
Supplier:	BINBO BIOLOGICAL CO.,LTD	
	FENGCHENG ONE ROAD	
	Xi'an	
	China	

2.COMPOSITION/INFORMATION ON INGREDIENTS

+86-13488214511

Components	ACGIH Exposure Limits:	OSHA Exposure Limits:
Calcium		
3-methyl-2-oxovalerate(2-hydroxy-4	None	None
-(methylthio)butyrate)		

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 swallowedSkin 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

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:

Environmental precautions:

Use personal protective equipment.

Methods for cleaning up:

Prevent product from entering drains.



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
3-methyl-2-oxovalerate(2-hydroxy-4		
-(methylthio)butyrate)		

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:

Bioaccumulation:No data availableEcotoxicity effects:No data availableAquatic toxicity:No data available

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
3-methyl-2-oxov			
alerate(2-hydro			
xy-4-(methylthio			
)butyrate)			

Components	Germany VCI (WGK)	World Health Organization	Ecotoxicity – Fish Species
		(WHO) – Drinking Water	Data
Calcium	Not Listed	Not Listed	Not Listed
3-methyl-2-oxov			
alerate(2-hydro			
xy-4-(methylthio			
)butyrate)			

Components	Ecotoxicity	-	Freshwater	Ecotoxicity	-	Microtox	Ecotoxicity - Water Flea
	Algae Data			Data			Data
Calcium	Not Listed			Not Listed			Not Listed
3-methyl-2-oxov							
alerate(2-hydro							
xy-4-(methylthio							
)butyrate)							

Components	EPA – ATSDR Priority List	EPA - HPV Challenge	California - Priority Toxic
		Program Chemical List	Pollutants
Calcium	Not Listed	Not Listed	Not Listed
3-methyl-2-oxov			
alerate(2-hydro			
xy-4-(methylthio			
)butyrate)			

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products:



Contaminated packaging:

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.

Do not re-use empty containers.

14. TRANSPO	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
Calcium	Not Listed
3-methyl-2-oxov	
alerate(2-hydro	
xy-4-(methylthio	
)butyrate)	

Components	U.S. DOT –Appendix B – Marine Pollutants	U.S. DOT -Appendix B - Severe Marine
		Pollutants
Calcium	Not Listed	Not Listed
3-methyl-2-oxov		
alerate(2-hydro		
xy-4-(methylthio		
)butyrate)		

IMO - labels:

15. REGULATORY INFOTMATION

International Inventories



Components	Inventory – United States TSCA – Sect.8(b)	Canada DSL Inventory List -
Calcium	Not Listed	Not Listed
3-methyl-2-oxov		
alerate(2-hydro		
xy-4-(methylthio		
)butyrate)		

U.S. regulations:

Components	California proposition	Massachusetts	New Jersey Right to	Pennsylvania
	65 -	Right to Know List:	Know List:	Right to Know List:
Calcium	NA	Not Listed	Not listed	Not listed
3-methyl-2-ox				
ovalerate(2-h				
ydroxy-4-(met				
hylthio)butyrat				
e)				

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
3-methyl-2-oxov					
alerate(2-hydro					
xy-4-(methylthio					
)butyrate)					

Components	SSARA	313	CERCLA/SARA	-	NTP:	IARC:
	Emission		Section	302		
	reporting/Toxic		Extremely Haz			
	Release	of				
	Chemicals					
Calcium			Not Listed		Not listed	Not listed
3-methyl-2-oxov						
alerate(2-hydrox						
y-4-(methylthio)						
butyrate)						



16. OTHER INFORMATION

Prepared by: Health & Safety

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End of safety data sheet