

MATERIAL SAFETY DATA SHEET

Revision Date : 2017-01-01

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

Product name:

Supplier:

Kallidinogenase

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

Tel:

2.COMPOSITION/INFORMATION ON INGREDIENTS

Components	ACGIH Exposure Limits:	OSHA Exposure Limits:
Kallidinogenase	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
Kallidinogenase	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,	
Specific effects:	dizziness, tiredness, nausea and vomiting. May include moderate to severe erythema (redness)	
	and moderate edema (raised skin), nausea, vomiting,	
	headache.	
Primary irritation:	No data is available on the product itself.	
Carcingenic effects:	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 available
Bioaccumulation:	No data available
Ecotoxicity effects:	No data available
Aquatic toxicity:	May cause long-term adverse effects in the aquatic
	environment.

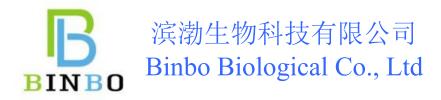
Components	U.S. DOT –Appendix B –	U.S. DOT -Appendix B -	United Kingdom – The red
	Marine Pollutants	Severe Marine Pollutants	List:
Kallidinogenase	Not Listed	Not Listed	Not Listed

World Health Organization Ecotoxicity – Fish Species

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Germany VCI (WGK)

Components



		(WHO) – Drinking Water	Data
Kallidinogenase	Not Listed	Not Listed	Not Listed
Components	Ecotoxicity – Freshwater	Ecotoxicity – Microtox	Ecotoxicity – Water Flea
	Algae Data	Data	Data
Kallidinogenase	Not Listed	Not Listed	Not Listed
Components	EPA – ATSDR Priority List	EPA – HPV Challenge	California – Priority Toxic
		Program Chemical List	Pollutants
Kallidinogenase	Not Listed	Not Listed	Not Listed

13. DISPOSAL CONSIDERATIONS

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. 1	RANSPURT 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

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



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

IMO – labels:

15. REGULATORY INFOTMATION

International Inventories

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

U.S. regulations:

Components	California 65 -	proposition	Massachusetts Right to Know List:	, ,	Pennsylvania Right to Know List:
Kallidinogena se	NA		Not Listed	Not listed	Not listed

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

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of safety data sheet