

MATERIAL SAFETY DATA SHEET

Revision Date : 2017-01-01

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

Product name:

Supplier:

BINBO BIOLOGICAL CO.,LTD FENGCHENG ONE ROAD Xi'an

China

Tocotrienol

+86-13488214511

Tel:

2.COMPOSITION/INFORMATION ON INGREDIENTS

Components	ACGIH Exposure Limits:	OSHA Exposure Limits:
Tocotrienol	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
Tocotrienol	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:	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 – Marine Pollutants	U.S. DOT –Appendix B – Severe Marine Pollutants	United Kingdom – The red List:
Tocotrienol	Not Listed	Not Listed	Not Listed
	1		
Components	Germany VCI (WGK)	World Health Organization	Ecotoxicity – Fish Species



		(WHO) – Drinking Water	Data
Tocotrienol	Not Listed	Not Listed	Not Listed
	1		
Components	Ecotoxicity – Freshwater	Ecotoxicity – Microtox	Ecotoxicity – Water Flea
	Algae Data	Data	Data
Tocotrienol	Not Listed	Not Listed	Not Listed
Components	EPA – ATSDR Priority List	EPA – HPV Challenge	California – Priority Toxic
		Program Chemical List	Pollutants
Tocotrienol	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		

14. TRANSPORT INFFORMATION				
UN/Id No:		Not regulated		
DOT				
Proper ship	ping 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
Tocotrienol	Not Listed



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

IMO – labels:

15. REGULATORY INFOTMATION

International Inventories

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

U.S. regulations:

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

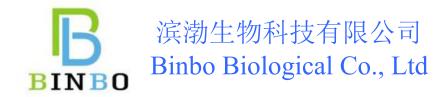
Components	Florida substance		node Island Right	Illinois – To	oxic Air	Connecticut -
	List:		Know List:	Contaminants		Hazardous Air
Tocotrienol	Not Listed	No	ot Listed	Not listed		Not listed

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

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of safety data sheet