

## SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006

Version 5.0 Revision Date 05.01.2017

## Material Safety Data Sheet Erythrulose msds

Section 1: Identification of Undertified Undert				
Product name:I(+)-ErythruloseINCI Name:ErythruloseProduct Number:C01001BBrand:ErytanREACH No.:A registration number is not available for this substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.CAS-No.:333-50-6Identified uses:Colorant or self tanning agent in personal care products, Manufacture of substances1.3Details of the supplier of the supplice of the supp				
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Product Number       :       C01001B         Brand       :       Erytan         REACH No.       :       A registration number is not available for this         .       .       Substance as the substance or its uses are         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .       .       .         .<				
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Company : M.C.Biotec Inc. 47-505, Demin Huayuan				
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E-mail address : <u>mc@mcbiotec.com</u>				
Website : <u>www.mcbiotec.com</u>				
Emergency telephone number				
<b>Emergency Phone #</b> : +86-139-13923033				
Section 2: Hazards Identification				
2.1 Classification of the substance or mixture	.1 Classification of the substance or mixture			
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.			

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This substance is not classified as dangerous according to Directive 67/548/EEC.

#### 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### 2.3 **Other hazards** - none

2.3 <b>Other hazards</b> - none					
	Section 3: Composition	n and Information	on Ingredi	ents	
3.1 Substances					
	Synonyms	: L-Glycero-2-te	trulose		
		S-1,3,4-Trihydi	roxy-2-butar	ione	
	Formula	: C4H8O4			
	Molecular Weight : 120.1 g/mol				
-	No components need to be disclosed accordi	ing to the applicable r	egulations.		
A) I	ngredient	INCI Name	CAS No.	Classification	Amount*
As li	sted in the CTFA Dictionary	Erythrulose	533-50-6		Α
<b>B)</b> A	Additives	INCI Name	CAS No.	Classification	Amount*
Solv	ent	Water			С
Pres	ervative	None			
Others (buffers, antioxidants, colorants) None					
# CTFA Dictionary					
FDA-Code (A = > 50%, B = 25-50%, C = 10-25%, D = 5-10%, E = 1-5%, F = 0.1-1%, G = < 0.1%)					
Section 4: First Aid Measures					
4.1					
	General advice				
	Consult a physician. Show this safety data sheet to the doctor in attendance.				
	If inhaled				
	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.				
	In case of skin contact				
	Wash off with soap and plenty of water. Consult a physician.				
	In case of eye contact				
	Flush eyes with water as a precaution.				
	If swallowed				
	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.				
4.2	Most important symptoms and effects, b	-		- F J	
	The most important known symptoms and effe		-	see section 2.2) an	d/or in
	section 11				

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4.3	Indication of any immediate medical attention and special treatment needed			
	No data available			
	Section 5: Fire Fighting Measures			
5.1	Extinguishing media			
	Suitable extinguishing media			
	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
5.2	Special hazards arising from the substance or mixture			
	Carbon oxides			
5.3	Advice for firefighters			
	Wear self contained breathing apparatus for fire fighting if necessary.			
5.4	Further information			
	no data available			
	Section 6: Accidental Release Measures			
6.1	Personal precautions, protective equipment and emergency procedures			
	Avoid breathing vapors, mist or gas.			
	For personal protection see section 8.			
6.2	Environmental precautions			
	Do not let product enter drains.			
6.3	Methods and materials for containment and cleaning up			
	Keep in suitable, closed containers for disposal.			
6.4	Reference to other sections			
	For disposal see section 13.			
Section 7: Handling and Storage				
7.1	Precautions for safe handling			
	For precautions see section 2.2.			
7.2	Conditions for safe storage, including any incompatibilities			
	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.			
	Containers which are opened must be carefully resealed and kept upright to prevent leakage.			
	Hygroscopic. Store under inert gas.			
7.3	Specific end uses			
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated			
	Section 8: Exposure Controls/Personal Protection			
8.1	Control parameters			
	Components with workplace control parameters			
	Contains no substances with occupational exposure limit values.			



	Ехро	osure Limits									
	Chem	ical Name	ACGIH	NIOSH	<b>OSHA - Final PELs</b>						
	Ery	thrulose	none listed	none listed	none listed						
3.2	Expo	Exposure controls									
	Appr	- Appropriate engineering controls									
	General industrial hygiene practice.										
Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).											
						Skin protection					
						Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (witho touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves use in accordance with applicable laws and good laboratory practices.					removal technique (without
											se of contaminated gloves after
Wash and dry hands.											
	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the										
standard EN 374 derived from it. <b>Body Protection</b>											
	imj	impervious clothing, The type of protective equipment must be selected according to the									
concentration and amount of the dangerous substance at the specific workplace. <b>Respiratory protection</b>					ice.						
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU E 14387) respirator cartridges. Use respirators and components tested and approved under appropriate				(US) or type ABEK (EU EN							
				roved under appropriate							
government standards such as NIOSH (US) or CEN (EU).											
Control of environmental exposure											
	Do	not let product en	ter drains.								
Section 9: Physical and Chemical Properties											
9.1			ic physical and chemica								
	a)	Appearance		Form: clear, visc	-						
				Colour: light yell	low						
	b)	Odour		Almost odorless							
	c)	Odour Thresho	d	no data available							
	d)	pН		2.0 - 5.0 (in 50							
	e)	Melting point/f	reezing point	no data available							
	f)		oint and boiling range	no data available							
	g)	Flash point		110°C Method:	closed cup						

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	h) Evaporation rate no data available						
	i) Flammability (solid, gas) Not a highly flammable liquid						
	j)	Upper/lower	no data available				
	flammability or						
	explosive limits						
	k)	Vapour pressure	1243 Pa (at 20 - 25℃)				
	l)	Vapour density	no data available				
	m)	Relative density	1.391 g/cm3				
	n)	Water solubility	soluble				
	o)	Partition coefficient: noctanol/water	Log Pow = -1.822				
	<b>p</b> )	Autoignition temperature	no data available				
	q)	Decomposition	no data available				
	47	temperature					
	r)	Viscosity	no data available				
	s)	Explosive properties	no data available				
	t)	Oxidizing properties	no data available				
9.2	Other safety information						
	no da	ata available					
		Section 10: Stability and	Reactivity				
10.1	Reac	ctivity					
	no da	ıta available					
10.2	0.2 Chemical stability						
	Stable under recommended storage conditions.						
10.3	10.3 Possibility of hazardous reactions						
	no data available						
10.4	0.4 Conditions to avoid						
	no data available						
10.5	5 Incompatible materials						
	Strong oxidizing agents						
10.6	B Hazardous decomposition products						
	Other decomposition products - no data available						
	In the event of fire: see section 5						
	In the	e event of fire: see section 5					
	In the	e event of fire: see section 5 Section 11: Toxicological I	nformation				
11.1			nformation				
11.1	Infor	Section 11: Toxicological I	nformation				

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NOEL (I	NOEL (Rat Oral)					
1000 mg	/kg bw/day					
Skin cor	Skin corrosion/irritation					
no data a	no data available					
Serious	eye damage/eye irr	itation				
no data a	vailable					
Respira	tory or skin sensitiz	zation				
no data a	no data available					
Germ ce	ell mutagenicity					
no data a	vailable					
Carcino	genicity					
IARC	No component of thi	s product present at levels greater than or equal to 0.1% is identified as				
	probable, possible or	confirmed human carcinogen by IARC.				
ACGIH	No component of thi	s product present at levels greater than or equal to 0.1% is identified as a				
	carcinogen or potent	ial carcinogen by ACGIH.				
NTP	No component of thi	s product present at levels greater than or equal to 0.1% is identified as a				
	known or anticipated	d carcinogen by NTP.				
OSHA	No component of thi	s product present at levels greater than or equal to 0.1% is identified as a				
	carcinogen or potent	ial carcinogen by OSHA.				
Reprodu	uctive toxicity					
no data a	vailable					
Specific	target organ toxici	ty - single exposure				
no data a	vailable					
Specific	target organ toxici	ty - repeated exposure				
no data a	vailable					
Aspirati	on hazard					
no data a	vailable					
Potentia	d health effects					
	Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.				
	Ingestion	May be harmful if swallowed.				
	Skin	May be harmful if absorbed through skin. Causes skin irritation.				
	Eyes	May cause eye irritation.				
	nd Symptoms of Exp					
	Ū.	ne chemical, physical, and toxicological properties have not been				
thorough	thoroughly investigated.					

### **Additional Information**

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#### **RTECS:** Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section	12: Eco	logical	Information

		0				
12.1	Toxicity					
	Toxicity to daphnia a	and other aquatic invertebrates.				
	Not toxic to daphnia					
	Toxicity to algae					
	Not toxic to freshwater a	lgae				
12.2	Persistence and degra	adability				
	Readily biodegradable.					
12.3	Bioaccumulative pote	ential				
	No data available					
12.4	Mobility in soil					
	no data available					
12.5	Results of PBT and vPvB assessment					
	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted					
12.6						
	No data available					
		Section 13: Disposal Considerations				
13.1						
	Product					
	Offer surplus and non-recyclable solutions to a licensed disposal company.					
	Contaminated packaging					
	Dispose of as unused product.					
		Section 14: Transport Information				
14.1	UN number					
	ADR/RID: -	IMDG: -	IATA: -			
14.2	UN proper shippi	ing name				
	ADR/RID:	Not dangerous goods				
	IMDG:	Not dangerous goods				
	IATA:	Not dangerous goods				
14.3	Transport hazaro	l class(es)				
	ADR/RID: -	IMDG: -	IATA: -			
14.4	Packaging group					
	ADR/RID: -	IMDG: -	IATA: -			

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14.5	Environmental haz	zards	
	ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precaution	s for user	
	no data available		
		Section 15: Regulatory Information	
This safe	ety datasheet complies with	h the requirements of Regulation (EC) No. 1907/2006	
15.1 S	Safety, health and envi	ronmental regulations/legislation specific for	the substance or mixture
ı	No data available		
15.2	Chemical Safety Assess	sment	
I	For this product a chemica	l safety assessment was not carried out	
		Section 16: Other Information	
Other S	pecial Considerations	Not available.	
Disclair	mer		
The info	rmation above is based or	n our present knowledge. However, no representation	n, warranty or guarantee of
any kind	l, express or implied, is ma	ade as to its accuracy, reliability or completeness and	l we assume no responsibility
for any l	loss, damage or expense, d	lirect or consequential, arising out of use. Users shou	ld make their own
investiga	ations to determine the su	itability of the information for their particular purpo	ses.
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