

SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006

Version 4.0 Revision Date 03.03.2016

Material Safety Data Sheet **Dihydroxyacetone msds**

1.1 Product identifiers Product name : 1,3-Dihydroxyacetone INCI Name :: Dihydroxyacetone Product Number :: C01002B Brand :: MCBiotec CAS-No. :: 96-26-4 EINECS :: 202-494-5 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses :: The ingredients for self tanning 1.3 Details of the supplier of the safety data sheet Company : M.C. Biotec Inc. Company : M.C. Biotec Inc. 47-505, Demin Huayuan Nantong, China Tel : : +86-139-13923033 Example 1000000000000000000000000000000000000	Section 1: Identification of the Substance/Mixture and of the Company/Undertaking			
INCI Name::DihydroxyacetoneProduct Number::C01002BBrand::MCBiotecCAS-No.::9e2e44EINECS::202-494-5Identified uses of the supplier of the supplice com14Emergency Telphone number15Faregency Telphone number16Emergency Telphone number17Cassification according to the supplice	1.1	Product identifiers		
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Fax : +86-10-8011555 ext 441505 E-mail address :: mc@mcbiotec.com Website :: www.mcbiotec.com 1.4 Emergency telephone number : Emergency Phone # :: +86-139-13923033 2.1 Classification of the substarter : Classification of the substarter :: : Skin irritation (Category 2) :: : Eye irritation (Category 2) : : Specific target organ toxicity - singet: si				Nantong, China
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Specific target organ toxicity - single exposure (Category 3)		Skin irritation (Category 2)		
		Eye irritation (Category 2)		
Classification according to EU Directives 67/548/EEC or 1999/45/EC		Specific target organ toxicity - single exposure (Category 3)		
~		Classification according to El	U D i	rectives 67/548/EEC or 1999/45/EC



	Irritating to eyes, respiratory system and skin.					
2.2	Label elements					
	Labelling according Regulation (EC) No 1272/2008 [CLP]					
	Pictogram	$\langle \cdot \rangle$				
	Signal word	Warning				
	Hazard statement(s)					
	H315	Causes skin irritation.				
	H319	Causes serious eye irritation.				
	H335	May cause respiratory irritation.				
	Precautionary statement(s)					
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.				
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,				
		if present and easy to do. Continue rinsing.				
	Supplemental Hazard	none				
	Statements	irective 67/548/EEC as amended.				
	According to European D					
	Hazard symbol(s)	×				
	R-phrase(s)					
	R36/37/38	Irritating to eyes, respiratory system and skin.				
	S-phrase(s)					
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical				
		advice.				
2.3	Other hazards - none					
	Section 3: Composition and Information on Ingredients					
3.1	Substances					
	Synonyms	: 1,3-Dihydroxy-2-propanone;DHA				
	Formula	: C3H6O3				
	Molecular Weight	: 90.08 g/mol				
Com	oonent	Concentration				
	Component Concentration 1,3-Dihydroxyacetone					
1,0 1	CAS-No.	96-26-4 -				

CAS-No.



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	Section 4: First Aid Measures			
4.1	Description of first aid measures			
	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			
	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.			
	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, both acute and delayed			
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.			
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			
	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure			
	adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.			
6.2	Environmental precautions			
	Do not let product enter drains.			



Methods and materials for containment and cleaning up 6.3 Pick up and arrange disposal without creating dust. Sweep up and shovel. 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** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place. 7.3 **Specific end uses** no data available **Section 8: Exposure Controls/Personal Protection Control parameters** 8.1 Components with workplace control parameters 8.2 Exposure controls **Appropriate engineering controls** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. **Personal protective equipment Eye/face protection** Safety glasses with side-shields conforming to EN166 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 (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. 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. **Body Protection**



	concentration and amount of the dangerous substance at the specific workplace.					
	Respiratory protection					
	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use					
	type	type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.				
	Use	respirators and components tested and approved under app	ropriate government standards such as NIOSH (US)			
	or C	EN (EU).				
		Section 9: Physical and Chemi	cal Properties			
9.1	Info	rmation on basic physical and chemical properties				
	a) Appearance Form: powder					
			Colour: white			
	b)Odourno data availablec)Odour Thresholdno data availabled)pH3.0-6.0 (50g/l, H2O, 20°c)e)Melting point/freezing point83 °C (Monomer); 96.5°C(Dimer)f)Initial boiling point and boiling range188°C (decomposition)		no data available			
			no data available			
			3.0-6.0 (50g/l, H2O, 20°c)			
			83 °C (Monomer); 96.5°C(Dimer)			
			188°C (decomposition)			
	g)	Flash point	no data available			
	h)	Evaporation rate	no data available			
	i)	Flammability (solid, gas)	Not a highly flammable solid			
	 j) Upper/lower no data available flammability or explosive limits 		no data available			
	k)	Vapour pressure	< - 0.01 Pa (20 °C)			
	l)	Vapour density	no data available			
	m)	Relative density	1.52 g/cm3 (20 °C)			
	n)	Water solubility	> 930 g/l (at 20°C) according to EC A.6.			
	o)	Partition coefficient: noctanol/water	Log Pow = -1.822			
	p)	Autoignition temperature	no data available			
	a)	Decomposition	na data availabla			
	q)no data availabletemperatureno data availabler)Viscosityno data available		no data available			
			no data available			
	s)	Explosive properties	no data available			
	t)	Oxidizing properties	no data available			
9.2	Other safety information					
	no data available					

impervious clothing, The type of protective equipment must be selected according to the

no data available

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	Section 10: Stability and Reactivity
10.1	Reactivity
	no data available
10.2	Chemical stability
	no data available
10.3	Possibility of hazardous reactions
	no data available
10.4	Conditions to avoid
	Exposure to moisture.
10.5	Incompatible materials
	Strong oxidizing agents
10.6	Hazardous decomposition products
	Other decomposition products - no data available
	Section 11: Toxicological Information
11.1	Information on toxicological effects
	Acute oral toxicity
	LD50 rat
	Dose: >16.000mg/kg
	Acute inhalation toxicity
	LC50 rat
	Dose: >5,1mg/l, 4h
	Method: OECD Test Guideline 403
	Aerosol
	Sensitisation
	In animal experiments:
	Results: Negative
	Method: OECD Test Guideline 429
	Genotoxicity in vitro
	Mutagenicity (mammal cell test):
	Result: negative



Ames test

Salmonella typhimurium Result: positive Method: OECD Test Guideline 471

Carcinogenicity

Did not show carcinogenic effects in animal experiments (Lit.)

Specific target organ toxicity - single exposure

The substances or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

IARC	No component of this 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 this product present at levels greater than or equal to 0.1% is identified as a carcinogen or		
	potential carcinogen by ACGIH.		
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or		
	anticipated carcinogen by NTP.		
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or		
	potential carcinogen by OSHA.		

Potential 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	Causes serious eye irritation.

Signs and Symptoms of Exposure

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

thoroughly investigated.

Additional Information

RTECS: Not available

Section 12: Ecological Information

12.1 **Toxicity**

Toxicity to daphnia and other aquatic invertebrates.



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EC50

Species: Daphnia magna (Water flea) Dose: >100mg/l Exposure time: 48h

Method: OECD Test Guideline 202

Toxicity to algae

IC50 Species: Desmodesmus subspicatus (green algae) Dose: >100mg/l Exposure time: 72h Method: OECD Test Guideline 201

Toxicity to bacteria

EC50

Species: activated sludge Dose:>1.000mg/l Exposure time: 3h

Method: OECD Test Guideline 209

12.2 Persistence and degradability

Biodegradability

Result: Readily biodegradable.

77%

Exposure time: 28d

Method: OECD Test Guideline 301D

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow: -1.95

Method: OECD Test Guideline 107

Bioaccumulation is not expected (log Pow <1)

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Substance does not meets the criteria for PBT or VPvB according to Regulation (EC) No 1907/2006, Annex, XIII.

12.6 **Other adverse effects**

Additional ecological information



	Do not allow to run into surface waters, wastewater, or soil				
		Section 13: Disposal Considerations			
13.1	 13.1 Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging Dispose of as unused product. 				
		Section 14: Transport Information			
14.1 14.2	UN number ADR/RID: - UN proper shipping n	IMDG: -	IATA: -		
	ADR/RID: IMDG: IATA:	Not dangerous goods Not dangerous goods Not dangerous goods			
14.3 14.4	Transport hazard clas ADR/RID: - Packaging group	ss(es) IMDG: -	IATA: -		
14.5	ADR/RID: - Environmental hazar ADR/RID: no	IMDG: - ds IMDG Marine pollutant: no	IATA: - IATA: no		
14.6	Special precautions f or no data available	dr user			
		Section 15: Regulatory Information			
15.1	Safety, health and environ <i>EU regulations</i> Major Accident Hazard Legislation Chemical Safety Assessment no data available	mental regulations/legislation specific for th 96/82/EC Directive 96/82/EC does not apply nt	e substance or mixture		
		Section 16: Other Information			
Other	Special Considerations: Not	t available.			



Disclaimer

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