

SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006

Version 6.0 Revision Date 2.4.2017

Material Safety Data Sheet **Piroctone Olamine msds**

Section 1: Identification of the Substance/mixture and of the Company/Undertaking				
Identification of the substance or preparation				
Product Nam	e	: Piroctone Olamine		
CAS#		: 68890-66-4		
EINECS #		: 272-574-2		
REACH No.		: A registration number is not available for this substance as the 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.		
TSCA		: TSCA 8(b) inventory: No products were found		
Use of the		Antidandruff agent for shampoos.		
substance/mi	ixture			
Company/und	ertaki	ng identification		
Company	:	M.C.Biotec Inc.		
		47-505, Demin Huayuan		
		Nantong, China		
Tel	:	+86-139-13923033		
Fax	:	+86-10-80115555 ext 441505		
E-mail	:	mc@mcbiotec.com		
website	:	www.mcbiotec.com		
Emergency te	elepho	ne number		
Emergency	:	+86-139-13923033		
Phone #				
Section 2: Hazards Identification				
Emergency O	vervie	••••••••••••••••••••••••••••••••••••••		
OSHA Hazards				
Irritant				
GHS Label elements, including precautionary statements				



Pictogram			
Signal word Danger			
Hazard statement(s)			
H303 May be harmful if swallowed.			
H315 Causes skin irritation.			
H318 Causes serious eye damage.			
H335 May cause respiratory irritation.			
H400 Very toxic to aquatic organisms.			
Precautionary statem	ent(s)		
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.		
P273	Avoid release to the environment.		
P280	Wear protective gloves / protective clothing / eye protection / face protection.		
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.		
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable		
	for breathing.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,		
	if present and easy to do. Continue rinsing.		
P312	Call a POISON CENTER or doctor/physician if you feel unwell.		
P321	Specific treatment (see supplemental first aid instructions on this label).		
P332 + P313	If skin irritation occurs: Get medical advice/attention.		
P337 + P313	If eye irritation persists: Get medical advice/attention.		
P362	Take off contaminated clothing and wash before reuse.		
P403+ P233	Store in a well-ventilated place. Keep container tightly closed.		
P405	Store locked up.		
P501	Dispose of contents/container to an approved waste disposal		
	plant.		
HMIS Classification			
Health hazard:	2		
Flammability:	1		
Reactivity:	0		
Personal protectio	n H		
Section 3: Composition and Information on Ingredients			
Synonyms :	1-Hydroxy-4-methyl-6-(2,4,4-trimethylpentyl)pyridin-2(1H)-one,		
	compound with 2-aminoethanol (1:1)		



Formula	: $C_{14}H_{23}NO_2 \cdot C_2H_7NO$	
Molecular Weight	: 298.42 g/mol	
CAS-No.	: 68890-66-4	
EC-No.	: 272-574-2	
No components need	to be disclosed according to the applicable regulations.	
	Section 4: First Aid Measures	
General advice		
Consult a physician.	Show this safety data sheet to the doctor in attendance. Move out of dangerous area.	
If inhaled		
If breathed in, move	person into fresh air. If not breathing, give artificial respiration. Consult a physician.	
In case of skin co	ntact	
Wash off with soap a	Wash off with soap and plenty of water. Consult a physician.	
In case of eye contact		
Rinse thoroughly wi	th 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.	
Most important symptoms and effects, both acute and delayed		
The most important	known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11	
Indication of any	immediate medical attention and special treatment needed	
no data available		
	Section 5: Fire Fighting Measures	
Suitable extinguis	shing media	
Use water spray, alco	phol-resistant foam, dry chemical or carbon dioxide.	
Special hazards a	rising from the substance or mixture	
Hazardous decompo	sition products formed under fire conditions Carbon oxides, nitrogen oxides (NOx)	
Advice for firefig	nters	
Wear self contained	breathing apparatus for fire fighting if necessary.	
Further informat	ion	
no data available		
Section 6: Accidental Release Measures		
Personal precaut	ions, protective equipment and emergency procedures	
Avoid dust formation. Avoid breathing vapours, mist or gas.		
For personal protection see section 8.		





Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

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

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. Normal measures for preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

Section 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

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 (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

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected



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according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9: Phys	sical and Chemical Properties
Appearance	
Form	powder
Colour	White
Odour	no data available
Odour Threshold	no data available
Safety data	
pH	no data available
Melting	344.1 °C at 1,013 hPa
point/freezing point	
Initial boiling point and	130 - 135°C
boiling range	
Flash point	no data available
Evapouration rate	no data available
Flammability (solid, gas)	no data available
Autoignition	no data available
temperature	
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	practically insoluble
Partition coefficient:	no data available
n-octanol/water	
Auto-ignition	no data available
temperature	
Decomposition	no data available
temperature	



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Viscosity	
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Explosive properties

Oxidizing properties

Other safety information

no data available

Section 10: Stability and Reactivity

no data available

no data available no data available

no data available

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Materials to avoid

Strong acids and oxidizing agents, Strong oxidizing agents

Hazardous decomposition products

Other decomposition products - no data available.

In the event of fire: see section 5

Section 11: Toxicological Information

Acute toxicity

Oral LD50

LD50 Oral - rat - 8,100.0 mg/kg

Inhalation LC50

LC50 > 4.9 mg/l (rat)

Dermal LD50

LD50 > 2,000 mg/kg (rat)

Skin corrosion/irritation

Moderate irritant (rabbit)

Eye damage/eye irritation

Severe irritant (rabbit)

Sensitization

non-sensitizing (Guinea pig)

Germ cell mutagenicity





no data available				
Carcinogenicity				
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.			
Reproduct				
no data avai				
Teratogeni	-			
no data avai				
-	rget organ toxicity - single exposure			
no data avai				
Specific tar	rget organ toxicity - repeated exposure			
no data avai	lable			
Aspiration	hazard			
no data avai	able			
Potential h	ealth effects			
Inhalat	ion May be harmful if inhaled. Causes respiratory tract irritation.			
Ingestio	DN May be harmful if swallowed.			
Skin	May be harmful if absorbed through skin. Causes skin irritation.			
Eyes	Causes eye irritation.			
Signs and S	Symptoms of Exposure			
To the best o	f our knowledge, the chemical, physical, and toxicological properties have not been thoroughly			
investigated				
Synergistic effects				
no data available				
Additional Information				
RTECS: Not available				
Section 12: Ecological Information				

Biodegradation: > 80 %



	Method: OECD 302B / ISO 9888 / EEC 88/302C		
	The product can be largely eliminated from the water by abiotic processes, e.g.		
	adsorption to activated sludge.		
Biodegradation :	14 % (28 d)		
	Method: OECD 301 D		
Biodegradation :	96 %		
	Method: OECD 303A		
Fish toxicity:	LC50 0.1 - 1 mg/l (96 h, golden orfe)		
Daphnia toxicity:	EC50 1.8 mg/l (48 h, Daphnia magna)		
	Method: OECD 202		
Bacteria toxicity:	EC50 583 mg/l		
	Method: OECD 209		
Chemical oxygen d	emand 2,030 mg/g		
(COD):			
Section 13: Disposal Considerations			
Product			
Observe all federal, state	e, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of		
this material.			
Contaminated packa	ging		
Dispose of as unused pro	oduct.		
	Section 14: Transport Information		
UN number			
ADR/RID: -	IMDG: - IATA: -		
UN proper shippin	g name		
ADR/RID: Not dan	gerous goods		
IMDG: Not dangerous goods			
IATA: Not danger	rous goods		
Transport hazard class(es)			
ADR/RID: -	IMDG: - IATA: -		
Packaging group			
ADR/RID: -	IMDG: - IATA: -		
Environmental hazards			
ADR/RID:no	IMDG:Marine pollutant: no IATA: -		
Special precautions for user			



no data available

Section 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

Further information

The information above is based on our present knowledge. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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