

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers			
i	Product Name	:	Clioquinol	C.P.
ii	Chemical Formula	:	C ₉ H₅CIINO	
iii	CAS No.	:	130-26-7	
iv	EC No.	:	204-984-4	
٧	Hazardous	:	Yes	
vi	Appearance	:	Brown powder	
1.2	Relevant identified	use	es of the substance	
i	Identified uses		Antifungal, Laboratory chemical	
1.3	Details of Manufac	ture :		
1.3 i	Details of Manufac Company Address	ture :	r Samrat Pharmachem Limited Plot No. A2/3444-3445, GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India.	
i	Company	ture : :	Samrat Pharmachem Limited Plot No. A2/3444-3445, GIDC, Phase 4, Ankleshwar – 393002,	
i	Company Address	ture : :	Samrat Pharmachem Limited Plot No. A2/3444-3445, GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India.	
i ii iii	Company Address Phone	ture : :	Samrat Pharmachem Limited Plot No. A2/3444-3445, GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India. +91-7045456789 / 7046456789	
i ii iii iv	Company Address Phone Email	:	Samrat Pharmachem Limited Plot No. A2/3444-3445, GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India. +91-7045456789 / 7046456789 contact@samratpharmachem.in	



2. HAZARD IDENTIFICATION

2.1	Classification of substance							
i	H301	Acute toxicity, oral	:	(Category 3)				
ii	H315	Skin irritation	:	(Category 2)				
iii	H317	Skin sensitization	:	(Category 1)				
iv	H319	Eye irritation	:	(Category 2)				
v	H335	Specific target organ toxicity-repeated exposure	:	(Category 3)				



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2.2	GHS Label elements	s, i	ncluding precautionary statements
i	Pictogram	:	
ii	Signal word	:	Danger
iii	Hazard Statement(s)		
	H301	:	Toxic if swallowed
	H315	:	Causes skin irritation
	H317	:	May cause an allergic skin reaction
	H319	:	Causes serious eye irritation.
iv	Precautionary Stateme	nt(s	6)
	P261	:	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
	P264	:	Wash skin thoroughly after handling
	P271	:	Use only outdoors or in a well-ventilated area.
	P280	:	Wear protective gloves/ eye protection/ face protection.
	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 statement		None





2.3 Hazards not otherwise classified (HNOC) or not covered by GHS Physiologically highly active, therapeutically usable substance. The substance must be handled with the care required for hazardous materials.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Substances		
i	Molecular Weight	:	305.50 g/mol
ii	Constituent Elements	:	C ₉ H ₅ CIINO

4. FIRST AID MEASURES

4.1	Symptoms
i	Most important symptoms and effects, both acute and delayed
	Characterized by itching, burning, irritation or stinging, redness, swelling.
ii	Indication of any immediate medical attention & special treatment needed
	If seeking medical attention, provide SDS document to physician.





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4.2	Description of first aid measures					
i	Inhalation	 If inhaled, move victim to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. 				
ii	Ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth out with water. If still feeling unwell, immediately make victim drink water (two glasses at least). Administer activated charcoal if necessary. Consult a doctor.				
iii	Skin contact	: Take off immediately all contaminated clothing. Wash skin with plenty of water. Cover the irritated skin with an emollient If skin irritation occurs: Get medical advice/attention.				
iv	Eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.				

5. FIRE FIGHTING MEASURES

5.1	Extinguishing media	a			
i	Suitable extinguishing agents	:	Use water foam carbon dioxide dry powder.		
	Unsuitable extinguishing agents	:	For this substance/mixture no limitations of extinguishing agents are given.		
ii	Special hazards arising from the substance or mixture	:	Carbon oxides Nitrogen oxides (NOx) Hydrogen chloride gas Hydrogen iodide Combustible.		
iii	Special remarks on Explosion Hazard	:	No data available		
iv	Advice for firefighters	:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.		
V	Additional information	:	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.		



6. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment & emergency								
	procedures								
	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, and consult an expert.								





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6.2 Environmental precautions

Do not let product enter drains. Use non-sparking tools and equipment. Pick up spill for recovery or disposal and place in a closed container.

6.3 Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1	Precautions for safe handling	
	Avoid raising dust. Use earthed equipment. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep container tightly closed.	
	Hygiene measures: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
7.2	Conditions for safe storage, including any incompatibilities	
	Storage conditions:	
	Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.	
	Storage class: Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic	
	compounds or compounds which causing chronic effects.	
7.3	Specific end use(s)	1
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated	1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Control Parameters				
i	Ingredients with workplace control parameters				
	No data available				
8.2	Exposure Controls				
i	Appropriate engineering controls				
	Emergency eye wash fountains should be available in the immediate vicinity of any				
	potential exposure. Provide adequate general and local exhaust ventilation.				
ii	Personal protective equipment				
(a)	Eye / face protection				
	Use equipment for eye protection tested and approved under appropriate				
	government standards such as NIOSH (US) or EN 166(EU) safety glasses.				





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(b)	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.
(C)	Body Protection
	Complete suit protecting against chemicals, The type of protective equipment must
	be selected according to the concentration and amount of the dangerous substance
	at the specific workplace.
(d)	Respiratory protection
	Required when dusts are generated. Our recommendations on filtering respiratory
	protection are based on the following standards: DIN EN 143, DIN 14387 and other
	accompanying standards relating to the used respiratory protection system.
	Recommended Filter type: Filter type P2
	The entrepreneur has to ensure that maintenance, cleaning and testing of
	respiratory protective devices are carried out according to the instructions of the
	producer. These measures have to be properly documented.
(e)	Control of environmental exposure
	Do not let product enter drains.



9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Form: Powder	Explosiveness	Non explosive
Appearance	Colour: Brown	LAPIOSIVEIIESS	
Odour Odourless		Vapour pressure	No data available
Odour threshold	No data available	Relative vapour	No data available
		density at 20°C	NO Udla avaliable
pH-value	3.42 at 21°C	Relative density	No data available
Melting/Freezing	171-174 °C	Solubilities	4.6 g/L at 21°C –
point	171-174 C	Solubilities	Soluble in water
		Partition	No data available
Boiling point	Not determined	coefficient (n-	
		octanol/water)	
Flash Point	Not determined	Auto/Self-ignition	No data available
FIDSHFUIL	Not determined	temperature	NU Udla avaliable
Evaporation rate	No data available	Decomposition	No data available
Evaporation rate		temperature	
Flammability	No data available	Viscosity	No data available
Density	2.047 g/cm ³	Poison Class	No data available



10. STABILITY & REACTIVITY

i	Reactivity	:	Reactive to oxidizing agents
ii	Chemical stability	:	The product is chemically stable under recommended storage conditions. It is sensitive to light.
iii	Possible hazardous reactions	:	No data available

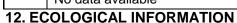


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ſ	iv	Conditions to avoid	:	Exposure to light. Heat. Avoid dust formation. Incompatible materials.
	V	Incompatible material	:	Strong oxidizing agents, Acids, Acid chlorides, Acid anhydrides.
	vi	Hazardous decomposition products	:	Carbon oxides, Hydrogen chloride gas, Nitrogen oxides (NOx), Hydrogen iodide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects						
Oral LD50 mouse		69 mg/Kg				
Dermal No data available		No data available				
Corrosion Irritation	on					
Serious eye damage	e / irritation	Causes serious eye irritation				
Respiratory or skin i	rritation	May cause allergic skin reaction				
Germ cell mutagenio	city	No data available				
Carcinogenicity		No data available				
Reproductive Toxici	ty	No data available				
Additional information						
No data available						
	Oral Dermal Corrosion Irritatio Serious eye damage Respiratory or skin i Germ cell mutagenio Carcinogenicity Reproductive Toxicit Additional inform	OralLD50 mouseDermalNo data availableCorrosion IrritationSerious eye damage / irritationRespiratory or skin irritationGerm cell mutagenicityCarcinogenicityReproductive ToxicityAdditional information				



12.1	Toxicity				
i	Particulars	Туре	Value		
	Fish LC50	No data available	No data available		
	Algae LC 50	No data available	No data available		
ii	Ecology – general	No data available	·		
iii	Ecology – air	No data available			
iv	Hazardous to aquatic environment – short term (acute)	No data available			
V	Hazardous to aquatic environment – long term (chronic)	No data available			
12.2	Persistence and degrad	ability			
i	Persistence and degradability No data available				
ii	Biodegradation		No data available		
12.3	Bio accumulative poten	tial			
i	BCF – Other aquatic organis	No data available			
ii	Partition coefficient n-octand	No data available			
iii	Bioaccumulative potential	No data available			
12.4	Mobility in Soil				
	No data available				







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12.5	Results of PBT and vPvB assessment
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6	Other adverse effects
	Not known

13. DISPOSAL CONSIDERATIONS

13.1	Waste disposal recommendation's			
i	General instructions			
	Waste must be disposed of in accordance with Federal, State and Local regulation.			
ii	Product / Packaging disposal recommendations			
	Avoid release to the environment			

14. TRANSPORT INFORMATION

14.1	In accordance with ADR / IMDG / IATA / ADN / RID							
	ADR	IMDG	ΙΑΤΑ	ADN	RID			
i	UN Number							
	UN 2811	UN 2811	UN 2811	UN 2811	UN 2811			
ii	UN proper ship	ping name						
	TOXIC	TOXIC SOLID,	TOXIC	TOXIC	TOXIC SOLID,			
	SOLID,	ORGANIC,	SOLID,	SOLID,	ORGANIC,			
	ORGANIC,	N.O.S.	ORGANIC,	ORGANIC,	N.O.S.			
	N.O.S.	(Clioquinol)	N.O.S.	N.O.S.	(Clioquinol)			
	(Clioquinol)		(Clioquinol)	(Clioquinol)				
iii	Transport haza	rd class						
	6.1	6.1	6.1	6.1	6.1			
iv	Hazardous clas	ss symbols						
V	Packing group							
		III	III	III	III			
vi	Environment ha	azards: Dangerou	is for the enviror	nment				
	No	No	No	No	No			
vii	Marine Pollutar	nt	•	•				







15. REGULATORY INFORMATION

15.1	Regulations			
i	This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.			
ii	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.			
ii	National legislation : Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major- accident hazards involving dangerous substances.			

16. OTHER INFORMATION

16.1	NFPA Rating			2 0
i	Health hazard	:	2 - Intense or continued but not chi cause temporary incapacitation c injury.	
ii	Fire hazard	:	1 - Materials that require considerate all ambient temperature conditions combustion can occur.	
iii	Reactivity	:	0 - Normally stable, even under fire and is not reactive with water.	exposure conditions,
16.2	HMIS Rating			Health
				Fire
				Reactivity
				Personal Protection
i	Health	:	No data available	
ii	Flammability	:	No data available	
iii	Physical	:	No data available	
iv		:	No data available	
16.3	Further Information			
	but may not be complete	e 8	lerived from the available literature & t & conclusive. The company shall not b andling or usage of the product. The	e responsible for any



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