

SAFETY DATA SHEET

Creation Date 06-Sep-2010 Revision Date 18-Jan-2018 Revision Number 5 1. Identification **Product Name** 8-Hydroxyquinoline Cat No. : BP436-100; O261-100; O261-500 CAS-No 148-24-3 Phenopyridine; Oxine; Oxyquinoline; 8-Quinolinol; Oxychinolin; Hydroxybenzopyridine Synonyms (Needles/Powder/Certified ACS) **Recommended Use** Laboratory chemicals. Not for food, drug, pesticide or biocidal product use Uses advised against Details of the supplier of the safety data sheet **Company**

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye IrritationCategory 1Skin SensitizationCategory 1		
Skin Sensitization Category 1	Acute oral toxicity	Category 3
	Serious Eye Damage/Eye Irritation	Category 1
Reproductive Toxicity Category 1B	Skin Sensitization	Category 1
	Reproductive Toxicity	Category 1B

Label Elements

Signal Word Danger

Hazard Statements

Toxic if swallowed May cause an allergic skin reaction Causes serious eye damage May damage fertility or the unborn child



Precautionary Statements Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Response

IF exposed or concerned: Get medical attention/advice

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

F		
Component	CAS-No	Weight %
8-Hydroxyquinoline	148-24-3	>95

4. First-aid measures			
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.		
Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.		
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.		

Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.		
Most important symptoms and effects	Causes severe eye damage. May cause allergic skin reaction.		
Notes to Physician	Treat symptomatically		
	5. Fire-fighting measures		
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		

Autoignition Temperature Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) Nitrogen oxides (NOx)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 3	Flammability 1	Instability 1	Physical hazards N/A		
	6. Accidental re	lease measures			
Personal Precautions			uipment. Avoid dust formation.		
Environmental Precautions	Do not flush into surface v contaminate ground wate	Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.			
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.					
	7. Handling	and storage			
Handling	· · ·	equipment. Do not get in eyes, a chemical fume hood. Do not	on skin, or on clothing. Avoid dust t breathe vapors/dust. Do not		
Storage	Keep in a dry, cool and we light.	ell-ventilated place. Keep conta	ainer tightly closed. Protect from		
8. Exposure controls / personal protection					
Exposure Guidelines		tain any hazardous materials v gion specific regulatory bodies			

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Long sleeved clothing.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	White, Beige, Pale yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	72 - 74 °C / 161.6 - 165.2 °F
Boiling Point/Range	267 °C / 512.6 °F @ 752 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	4.7 hPa @ 100 °C
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C9 H7 N O
Molecular Weight	145.16
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10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Light sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to light.
Incompatible Materials	Strong oxidizing agents, Strong acids
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information	
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Component Informa	ation						
Component		LD50 Oral	LD50 Oral LD50 Dermal			LC50 Inhalation	
8-Hydroxyquinoline		LD50 = 790 mg/kg (Ra	LD50 = 790 mg/kg (Rat) Not listed		LC50 > 1210	LC50 > 1210 mg/m ³ (Rat) 6 h	
oxicologically Syn	ergistic	No information ava	No information available				
Products							
Delayed and immed	liate effects a	is well as chronic effec	cts from short ar	<u>nd long-term expo</u>	sure		
rritation		Risk of serious dan	nage to eyes				
Sensitization		May cause an aller	gic skin reaction				
Carcinogenicity		The table below inc	dicates whether e	ach agency has lis	ted any ingredient	as a carcinogen	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
8-Hydroxyquinoline	148-24-3	Not listed	Not listed	Not listed	Not listed	Not listed	
Iutagenic Effects		No information ava	No information available				
Reproductive Effects		No information ava	No information available.				
Developmental Effe	cts	No information ava	No information available.				
Feratogenicity		No information ava	No information available.				
STOT - single expo		None known	None known				
STOT - repeated exposure		None known	None known				
Aspiration hazard		No information ava	No information available				
Symptoms / effects,both acute and delayed		and No information ava	No information available				
Endocrine Disruptor Information		No information ava	No information available				

Other Adverse Effects

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
8-Hydroxyquinoline	Not listed	Not listed	EC50 = 2.3 mg/L 30 min	Not listed
Persistence and Degradability Persistence is unlikely		s unlikely		
Bioaccumulation/ AccumulationNo information available.Mobility. Is not likely mobile in the environment due its low water solubility.				
Component log Pow				
8-Hydroxyquinoline			0.26	

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information	
DOT		
UN-No	UN2811	
Proper Shipping Name	TOXIC SOLIDS, ORGANIC, N.O.S.	
Hazard Class	6.1	
Packing Group		
TDG		
UN-No	UN2811	
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.	
Hazard Class	6.1	
Packing Group	III	
IATA		
UN-No	UN2811	
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.	
Hazard Class	6.1	
Packing Group	III	
IMDG/IMO		
UN-No	UN2811	
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.	
Hazard Class	6.1	
Packing Group		
15. Regulatory information		

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
8-Hydroxyquinoline	Х	Х	-	205-711-1	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation	
Reportable Quantity (RQ):	Ν

DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS