

SAFETY DATA SHEET

Creation Date 06-June-2022 Revision Date 05-June-2024 **Revision Number** 3

1. Identification

Product Name 8 - Hydroxyquinoline

AC121900000; AC121900010; Cat No.:

CAS No 148-24-3

Oxine; 8-Quinolinol **Synonyms**

Laboratory chemicals. Recommended Use

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

CompanyHefei TNJ Chemical Industry Co.,Ltd. D1508 Xincheng Center, Qianshan Road, Hefei City, Anhui, China 230022

Tel: 0086 (551) 65418684 Email: info@tnjchem.com

For information call: 0086-551-65418695

Emergency Telephone Number

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910. 1200)

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

Label Elements

Signal Word Danger

Hazard Statements

8 - Hydroxyquinoline

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

Eves

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

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 Remove 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.

Do NOT induce vomiting. Call a physician or poison control center immediately. Ingestion

Most important symptoms and

effects

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Causes severe eye damage. May cause allergic skin reaction.

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Suitable Extinguishing Media

No information available

Unsuitable Extinguishing Media No information available

No information available Flash Point Method -No information available

Autoignition Temperature

Explosion Limits

No data available Upper No data available Lower 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

Instability Physical hazards **Flammability** Health 1 N/A 3 1

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe

Environmental Precautions 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 and shovel into suitable containers for disposal. Avoid dust formation. Up

7. Handling and storage

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on Handling

> clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from Storage.

light. Incompatible Materials. Strong oxidizing agents. Strong acids.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region 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 Wear appropriate protective gloves and clothing to prevent skin exposure.

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

H 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

UpperNo data availableLowerNo data availableVapor Pressure4.7 hPa @ 100 °C

Vapor Density

Not applicable

Specific Gravity

No information available
Solubility

Insoluble in water

Partition coefficient; n-octanol/water

Autoignition Temperature

No information available

Decomposition Temperature

No information available

No applicable

Viscosity

Molecular Formula

Molecular Weight

Not applicab
C9 H7 N O
145.16

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.

8 - Hydroxyquinoline

Incompatible Materials Strong oxidizing agents, Strong acids

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), 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

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
8 - Hydroxyquinoline	LD50 = 790 mg/kg (Rat)	LD50 > 10000 mg/kg (Rat)	LC50 > 1210 mg/m ³ (Rat) 6 h

Toxicologically Synergistic

No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Risk of serious damage to eyes

Sensitization May cause sensitization by skin contact

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
8 - Hydroxyquinoline	148-24-3	Not listed				

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental EffectsNo information available.

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

 $\textbf{Symptoms} \ \textit{I} \ \textbf{effects,both acute and} \ \ \textbf{No} \ \ \textbf{information} \ \ \textbf{available}$

delayed

Endocrine Disruptor Information 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

Bioaccumulation/ Accumulation

No 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 III

TDG

UN-No UN2811

Proper Shipping Name Toxic solid, organic, n.o.s.

Hazard Class 6.1 Packing Group III

<u>IATA</u>

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 NameToxic solid, organic, n.o.s.Hazard Class6.1

Packing Group

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active- Inactive	TSCA - EPA Regulatory Flags
8 - Hydroxyguinoline	148-24-3	X	ACTIVE	_

Leaend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
8 - Hydroxyquinoline	148-24-3	Χ	_	205-711- 1	Х	Χ	Х	Χ	Х	KE-30043

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

8 - Hydroxyquinoline

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Not applicable Clean Air Act

OSHA - Occupational Safety and

Health Administration

Not applicable

Not applicable **CERCLA**

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

Authorisation/ Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	
8 - Hydroxyquinoline	-	Use restricted. See item 30. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	_

https://echa.europa.eu/substances-restricted-under-reach

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
8 - Hydroxyquinoline	148-24-3	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
8 - Hydroxyquinoline	148-24-3	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

None

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