

# SAFETY DATA SHEET

fluorochem.

## 1. Identification of Substance / Mixture

### Product Identifier

1.1.2 Product Name	8-Hydroxyquinoline
1.1.2 Other Names	
1.1.1 Product Code	F093034
1.1.3 CAS	148-24-3
1.1.4 MDL	MFCD00006807
1.1.5 EINECS	N/A
1.1.6 REACH Registration Number	
1.2.1 Relevant Uses	For research and development purposes only.
1.2.2 Uses Advised Against	No uses advised against.

### 1.3 Supplier Details

1.3.1 Company	Fluorochem Ltd
1.3.2 Address	Unit 14, Graphite Way Hadfield Glossop Derbys. SK13 1QH United Kingdom
1.3.3 Telephone	01457 860111
1.3.4 Email	sds@fluorochem.co.uk
1.4.1 Emergency Telephone	+44 20 3807 3798

## 2. Hazards Identification

### 2.1.1 Classification

Acute Tox. 3  
Aquatic Acute 1  
Aquatic Chronic 1  
Eye Dam. 1  
Repr. 1B  
Skin Sens. 1

### 2.2.1 Signal Word

**Danger**

### 2.2.2 Pictograms



GHS05



GHS06



GHS08



GHS09

### 2.2.3 Hazards

H301 Toxic if swallowed.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H360D May damage the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

### 2.2.4 Precautions

**P201** Obtain special instructions before use.  
**P202** Do not handle until all safety precautions have been read and understood.  
**P261** Avoid breathing dust/fume/gas/mist/vapours/spray.  
**P264** Wash hands thoroughly after handling.  
**P270** Do not eat, drink or smoke when using this product.  
**P272** Contaminated work clothing should not be allowed out of the workplace.  
**P273** Avoid release to the environment.  
**P280.4** Wear protective gloves/protective clothing and eye/face protection.  
**P301+P310.1** IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
**P302+P352.1** IF ON SKIN: Wash with plenty of water.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P308+P313** IF exposed or concerned: Get medical advice/attention.  
**P310.1** Immediately call a POISON CENTER/doctor.  
**P321** Specific treatment.  
**P330** Rinse mouth.  
**P333+P313** If skin irritation or rash occurs: Get medical advice/attention.  
**P362+P364** Take off contaminated clothing and wash it before reuse.  
**P391** Collect spillage.  
**P405** Store locked up.  
**P501.2** Dispose of contents/container to an appropriate recycling or disposal facility.

### 2.2.5 Other Classification Hazards

## 3. Composition of Ingredients

### SUBSTANCE

3.1.1 Name	3.1.2 CAS	Einecs	3.1.3 Composition	Hazards
8-Hydroxyquinoline	148-24-3	N/A		H301 Acute Tox. 3 H317 Skin Sens. 1 H318 Eye Dam. 1 H360D Repr. 1B H400 Aquatic Acute 1 H410 Aquatic Chronic 1

## 4. First Aid Measures

4.1.1 Eye contact	Where Diphoterine is not available, rinse eyes with copious amounts of water for at least 20 minutes. Protect uninjured eye. Remove contact lenses if present and easy to do. Continue rinsing and seek immediate medical attention.
4.1.2 Ingestion	Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical advice.
4.1.3 Inhalation	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory problems seek immediate medical attention.
4.1.4 Skin Contact	Where Diphoterine is not available, rinse skin with copious amounts of water for at least 20 minutes.
4.1.5 General Advice	No additional advice.
4.2.1 Most Important Symptoms and Effects	No known symptoms or effects.
4.3.1 Immediate First Aid Measures	

## 5. Fire Fighting Measures

5.1.1 Suitable Fire Extinguishing Media	Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire.
5.1.2 Unsuitable Fire Extinguishing Media	No known unsuitable media.
5.2.1 Special Hazards	In combustion toxic fumes may form.
5.3.1 Advice for Fire Fighters	As in any fire, wear self-contained breathing apparatus and full protective gear.

## 6. Accidental Release Measures

6.1.1 Personal Precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak.
6.2.1 Environmental Precautions	Prevent further leakage if safe to do so. Prevent product from entering drains. Do not let product enter waterways or sewer systems. Discharge into the environment must be avoided.
6.3.1 Containment - Methods and Materials	Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring into an airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations.
6.4.1 Referenced SDS Sections	

## 7. Handling and Storage

## Personal Precautions

<b>7.1.1 Safe Handling</b>	Wear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat/sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate exhaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. For precautions see section 2.2.
<b>7.1.2 Protection Against Explosion and Fire</b>	Where possible, use anti static and spark proof equipment when handling.
<b>7.1.3 General Occupational Hygiene</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

## Conditions for Safe Storage and Incompatibilities

<b>7.2.1 Managing Storage Risks</b>	Light sensitive. Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.
<b>7.2.2 Storage Controls</b>	No special requirements.
<b>7.2.3 Maintaining Integrity</b>	Product is sensitive to light.
<b>7.2.4 Other Advice</b>	No other specific advice available.
<b>7.3.1 Specific End Use(s)</b>	No specific end uses are advised. The products supplied are for research purposes only.

## 8. Exposure Controls / Personal Protection

<b>8.1.1 Control Parameters</b>	
<b>8.2.1 Engineering Measures</b>	Use only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>8.2.2 Face Protection</b>	Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand.
<b>8.2.3 Hand Protection</b>	Handle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it. 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.
<b>8.2.4 Skin Protection</b>	Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1 standards. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>8.2.5 Respiratory Protection</b>	Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed under normal use conditions.
<b>8.2.6 Hygiene Protection</b>	Ensure hair or skin particles cannot enter the chemical container.
<b>8.2.7 Environment Exposure Controls</b>	Avoid discharge into the environment, see section 6.2.

## 9. Physical and Chemical Properties

<b>9.1.1 State</b>	Solid
<b>9.1.2 Appearance</b>	Powder
<b>9.1.3 Odour</b>	No data available.
<b>9.1.4 Odour Threshold</b>	No data available.
<b>9.1.5 pH</b>	No data available.
<b>9.1.6 Melting Point / Freezing Point</b>	74°C
<b>9.1.7 Initial Boiling Point</b>	No data available.
<b>9.1.8 Boiling Range</b>	No data available.
<b>9.1.9 Flash Point</b>	No data available.
<b>9.1.10 Evaporation Rate</b>	No data available.
<b>9.1.11 Flammability</b>	No data available.
<b>9.1.12 Upper / Lower Flammability or Explosion Limits</b>	No data available.
<b>9.1.13 Vapour Pressure</b>	< 0.1 hPa at 25°C
<b>9.1.14 Vapour Density</b>	No data available.
<b>9.1.15 Relative Density</b>	1.034 g/cm <sup>3</sup> at 20°C
<b>9.1.16 Solubility</b>	0.555 g/L at 20°C in Water
<b>9.1.17 Partition Coefficient</b>	1.85 at 25°C
<b>9.1.18 Auto Ignition Temperature</b>	No data available.
<b>9.1.19 Decomposition Temperature</b>	No data available.
<b>9.1.20 Viscosity</b>	No data available.
<b>9.1.21 Explosive Properties</b>	No data available.

9.1.22 Oxidising Properties	No data available.
9.2.1 Other information	No additional information available.

## 10. Stability and Reactivity

10.1.1 Reactivity	No known reactivity, based on information available.
10.2.1 Stability	Light sensitive.
10.3.1 Possibility of Hazardous Reactions	None under normal storage conditions.
10.4.1 Conditions To Avoid	Exposure to light. Heat, sparks, open flames, sources of ignition. Exposure to moisture.
10.5.1 Incompatible Materials	Strong oxidising agents.
10.6.1 Hazardous Decomposition Products	No Data Available.

## 11. Toxicology Information

11.1.1 Acute Toxicity	LD50 Oral - Mouse - 177 mg/kg LD50 Dermal - Rat - male and female - > 10,000 mg/kg (OECD Test Guideline 402)
11.1.2 Skin Corrosion / Irritation	No Toxicology data available for this product.
11.1.3 Serious Eye Damage / Irritation	Causes serious eye damage.
11.1.4 Respiratory or Skin Sensitisation	Toxic if swallowed.
11.1.5 Germ Cell Mutagenicity	No Toxicology data available for this product.
11.1.6 Carcinogenicity	No Toxicology data available for this product.
11.1.7 Reproductive Toxicity	May damage the unborn child.
11.1.8 STOT-single Exposure	No Toxicology data available for this product.
11.1.9 STOT-repeated Exposure	No Toxicology data available for this product.
11.1.10 Aspiration Hazard	No Toxicology data available for this product.
11.2.1 Additional Toxicology Information	No Toxicology data available for this product.

## 12. Ecological Information

12.1.1 Toxicity	Toxicity to fish LC50 - Fish - 18 mg/l - 96 h Remarks: (ECOTOX Database) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 2.4 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0.225 mg/l - 72 h (OECD Test Guideline 201) Toxicity to bacteria static test EC50 - activated sludge - 2 mg/l - 28 d (OECD Test Guideline 301D)
12.2.1 Persistence and Degradability	No Ecological data available for this product.
12.3.1 Bio-Accumulative Potential	No Ecological data available for this product.
12.4.1 Mobility in Soil	Log Pow: 1.85
12.5.1 Results of PBT and vPvB assessment	No Ecological data available for this product.
12.7.1 Endocrine Disrupting Properties	Avoid release to the environment.
12.6.1 Other Adverse Effects	Very toxic to aquatic life with long lasting effects.,Very toxic to aquatic life.

## 13. Disposal Considerations

13.1.1 Disposal Operations	Ensure product is disposed of by licensed waste carriers.
13.1.2 Disposal of Packaging	

## 14. Transport Information

IATA UN Number	2811	ADR UN Number	2811	IMDG UN Number	2811
14.1.2 IATA Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S. (8-Hydroxyquinoline)	ADR Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S. (8-Hydroxyquinoline)	IMDG Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S. (8-Hydroxyquinoline)
IATA Packing Group	III	ADR Packing Group	III	IMDG Packing Group	III
14.1.4 IATA Hazard Class	6.1	ADR Hazard Class	6.1	IMDG Hazard Class	6.1
14.1.5 IATA Sub Class	- None -	ADR Sub Class	- None -	IMDG Sub Class	- None -

## 15. Regulatory Information

**15.1.1 Regulatory Information** As far as Fluorochem is aware, there are no further regulations controlling this product.

**15.2.1 Chemical Safety Assessment**

## 16. Other Information

**16.1.2 Information Not Covered in Other Sections**

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)  
RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association ICAO:International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the ICAO  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CAS:Chemical Abstracts Service

**Revision**

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**Date Modified**

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**16.1.1 Disclaimer**

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user. This SDS adheres to Regulation (EC) No 1907/2006, and as of 13th April 2023, also conforms to EU Regulation 2020/878.