

MATERIAL SAFETY DATA SHEET

QUINIZARIN 96% (For Synthesis) (C.I.NO.58050) CAS NO. : 81-64-1

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: QUINIZARIN 96% (For Synthesis) (C.I.NO.58050)

CAS#: 81-64-1

C.I. No.: Not available.

Synonym: (1,4-Dihydroxyanthraquinone)

Chemical Name: QUINIZARIN 96% (For Synthesis) (C.I.NO.58050)

Chemical Formula: C₁₄H₈O₄

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: **OXFORD LAB FINE CHEM LLP**
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
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Section 2: Composition and Information on Ingredients

Substances

Formula: C₁₄H₈O₄

Molecular weight: 240.21 g/mol

CAS-No.: 81-64-1

Hazardous ingredients according to Regulation (EC) No 1272/2008.

Substance name	Cas no.	Concentration
1,4-Dihydroxyanthraquinone	81-64-1	<=100%

Section 3: Hazards Identification

Classification of the substance or mixture

Classification of the substance according to Regulation (EC) No 1272/2008:

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

Other hazards : None.

Section 4: First Aid Measures

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self contained breathing apparatus for fire-fighting if necessary.

Further information

No data available

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities

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

Storage class (TRGS 510): Combustible Solids

Section 8: Exposure Controls/Personal Protection

Control parameters

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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.

Section 8: Exposure Controls/Personal Protection (Continued)

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 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 le (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:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a) Appearance Form	: Powder.
b) Odour	: No data available.
c) Odour threshold	: No data available.
d) pH	: No data available.
e) Melting point/range	: 198 -199 °C
f) Initial boiling point and boiling range	: No data available.
g) Autoignition temperature	: No data available.
h) Flammability (solid, gas)	: No data available.
i) Upper/lower flammability or explosive limits	: No data available.
j) Flash point [°C]	: No data available.
k) Evaporation rate	: No data available.
l) Vapour pressure	: No data available.
m) Vapour density	: 9.62
n) Relative density,	: No data available.
o) Solubility in water	: No data available.
p) Viscosity	: No data available.
q) Explosive properties	: No data available.
r) Oxidising properties	: No data available.
s) Decomposition temperature	: No data available.
t) Autoignition temperature	: No data available.
u) Molecular Weight	: No data available.

Section 10: Stability and Reactivity Data

Reactivity : No data available.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No data available.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents, strong bases.

Hazardous decomposition products

Other decomposition products - Hazardous decomposition products formed under fire conditions.-

Carbon oxides

Other decomposition products-No data available.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity:

LD50Oral-Rat-> 5,000 mg/kg (1,4-Dihydroxyanthraquinone)

Skin corrosion/irritation

No data available (1,4-Dihydroxyanthraquinone)

Serious eye damage/eye irritation

Eyes-Rabbit (1,4-Dihydroxyanthraquinone)

Result: Mild eye irritation

Respiratory or skin sensitization

No data available (1,4-Dihydroxyanthraquinone)

Germ cell mutagenicity

No data available (1,4-Dihydroxyanthraquinone)

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.

Reproductive toxicity

No data available (1,4-Dihydroxyanthraquinone)

Specific target organ toxicity - single exposure

No data available (1,4-Dihydroxyanthraquinone)

Specific target organ toxicity - repeated exposure

No data available

Section 11: Toxicological Information (Continued)

Aspiration hazard

No data available (1,4-Dihydroxyanthraquinone)

Additional Information

RTECS: ET5500000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (1,4-Dihydroxyanthraquinone)

Section 12: Ecological Information

Toxicity:

Toxicity to algae: EC50-Desmodesmus subspicatus (green algae)-0.44 mg/l-72 h(1,4-Dihydroxyanthraquinone)

Persistence - degradability : Biodegradability

Result: -According to the results of tests of biodegradability this product is not readily biodegradable.

Bioaccumulative potential : Not established.

Mobility in soil : No data available (1,4-Dihydroxyanthraquinone)

Results of PBT and vPvB assessment : PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects :

Very toxic to aquatic life with long lasting effects.

Section 13: Disposal Considerations

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.
Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,4-Dihydroxyanthraquinone)

UN N° : 3077

ADR - Class : 9

Sea transport (IMDG) [English only]

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,4-Dihydroxyanthraquinone)

UN N° : 3077

IMO-IMDG - Class or division : 9

IMO-IMDG - Packing group : III

Air transport (ICAO-IATA) [English only]

Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (1,4-Dihydroxyanthraquinone)

UN N° : 3077

IATA - Class or division : 9

IATA - Packing group : III

Further information: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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