

MATERIAL SAFETY DATA SHEET

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

Composition and Information on Ingredients

Name	S.K.U	% by Weight
1,4-Dihydroxyanthraquinone	GCS-8664	<=100%

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.

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

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

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.

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

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.

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.

Physical and Chemical Properties

Information on basic physical and chemical properties a) Appearance Form

b) Odour	: Powder.
c) Odour threshold	: No data available.
d) pH	: No data available.
e) Melting point/range	: 198 -199 °C
f) Initial boiling point andboiling range	: No data available.
g) Autoignition temperature	: No data available.
h) Flammability (solid, gas)	: No data available.
i) Upper/lower flammability or explosive limits	
j) : No data available.	
k) 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
Molecular Weight

: No data available.
: No data available.

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.

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-

Dihydroxyanthraqui

none) 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

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)

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.

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.

Transformation 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.

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.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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