

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: 4-Oxo-1,4-dihydroquinoline-3-carboxylic acid

CAS Number: 13721-01-2

2. COMPOSITION, INFORMATION ON INGREDIENTS

Molecular Formula: C₁₀H₇NO₃

Molecular Weight: 189.167

3. HAZARDS IDENTIFICATION EMERGENCY OVERVIEW

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

3.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram

Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements None

According to European Directive 67/548/EEC as amended

Hazard symbol(s) R-phrases(s)

R22

R36/37/38 Harmful if swallowed. Irritating to eyes, respiratory system and skin.

S-phrases(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37 Wear suitable protective clothing and gloves.

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3.3 Other hazards None

4. FIRST AID MEASURES

Eyes: Flush eyes with plenty of water occasionally lifting the upper and lower lids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

5. FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide or chemical foam.

6. ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment.

Spills/Leaks: Vacuum or sweep up material and place into suitable disposal container. Avoid generating dusty conditions.

7. HANDLING AND STORAGE

Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with eyes, skin.

Storage: Storage temperature: 2 – 4°C and Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes: Wear chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Wear appropriate respirators where necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point 358.4 °C at 760 mmHg

Melting Point No data available.

Solubility in water Slightly soluble.

Vapor Pressure No data available.

Vapor Density No data available.

10. STABILITY AND REACTIVITY

Chemical Stability: This product is relatively unstable under normal temperature.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous combustion or Decomposition products: Carbon monoxide, carbon dioxide, and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

May be toxic by inhalation, in contact with skin and if swallowed.

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION

Not available.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Not available.

Chemical Safety Assessment:

Not available.

16. ADDITIONAL INFORMATION

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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