

## 2,3-Dihydro-benzo[1,4]dioxine-6-carboxylic acid 4442-54-0 MSDS

**Section 1 - Chemical Product** MSDS Name: 2,3-Dihydro-1,4-benzodioxine-6-carboxylic acid  
97% Material Safety Data Sheet  
Synonym:

### Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content
4442-54-0	2,3-Dihydro-1,4-benzodioxine-6-carboxy	97%

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

### Section 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Not available.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion:

May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation:

May cause respiratory tract irritation. May be harmful if inhaled.

Chronic:

Not available.

### Section 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes 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.

Notes to Physician:

Treat symptomatically and supportively.

## **Section 5 - FIRE FIGHTING MEASURES**

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

## **Section 6 - ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

## **Section 7 - HANDLING and STORAGE**

Handling:

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

Storage:

Store in a cool, dry place. Store in a tightly closed container.

## **Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 4442-54-0: Personal Protective Equipment Eyes: Not available.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

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.

## **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid

Color: white

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 133 - 136 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density:

Molecular Formula: C<sub>9</sub>H<sub>8</sub>O<sub>4</sub>

Molecular Weight: 180.16

## **Section 10 - STABILITY AND REACTIVITY**

Chemical Stability:

Not available.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Strong oxidizing agents, bases.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported

## **Section 11 - TOXICOLOGICAL INFORMATION**

RTECS#:

CAS# 4442-54-0 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

2,3-Dihydro-1,4-benzodioxine-6-carboxylic acid - Not listed by ACGIH, IARC, or NTP.

## **Section 12 - ECOLOGICAL INFORMATION**

## **Section 13 - DISPOSAL CONSIDERATIONS**

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

## **Section 14 - TRANSPORT INFORMATION**

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

## **Section 15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 4442-54-0: No information available.

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 4442-54-0 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 4442-54-0 is not listed on the TSCA inventory.

It is for research and development use only.

## **SECTION 16 - ADDITIONAL INFORMATION**

N/A