

Material Safety Data Sheet

Date Printed: 07/25/2006 Date Updated: 02/06/2006 Version 1.40

Section 1 - Product and Company Information

Product Name Product Number 2,5-Dihydroxybenzoic acid 39319

Brand

Fluka Chemical

Company Street Address Sigma-Aldrich 3050 Spruce Street

800-325-5052

SAINT LOUIS, MO 63103 US City, State, Zip, Country 800-325-5832

Technical Phone:

Emergency Phone:

314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name

CAS # 490-79-9 **SARA 313** No

EC no

207-718-5

Annex | Index Number

2,5-DIHYDROXYBENZOIC ACID

Formula Synonyms

Acido 2,5-diidrossibenzoico (Italian), Benzoic acid, 2,5-dihydroxy-, 2,5-Dhba, 2,5-Dihydroxybenzoic

acid, Gentisate, Hydroquinonecarboxylic acid, 5-Hydroxysalicylic acid, Kyselina 2,5dihydroxybenzoova (Czech), Kysellna gentisinova (Czech), Salicylic acid, 5-hydroxy-

Section 3 - Hazards Identification

Emergency Overview

Harmful.

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

HMIS Rating

Health: 2

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 2

Flammability: 0

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp:

N/A

Extinguishing Media

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam,

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes,

Specific Hazard(s)

Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe dust, Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure,

Storage

Suitable

Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand

Compatible chemical-resistant gloves,

Chemical safety goggles.

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General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance Physical State Color Form Solid Slightly yellow Crystals Molecular Weight: 154-12 AMU N/A pН N/A BP/BP Range MP/MP Range 203 °C Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density N/A **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** N/A Water Content N/A Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A **Partition Coefficient** N/A Decomposition Temp. N/A Flash Point °F N/A Flash Point °C N/A **Explosion Limits** N/A Flammability N/A Autoignition Temp N/A Solubility N/A N/A = not available

Section 10 - Stability and Reactivity

Stability

Stable

Stable.

Materials to Avoid

Strong oxidizing agents, Strong bases, Acid chlorides, Acid anhydrides,

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide.

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Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

Causes skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eve Contact

Causes eye irritation.

Inhalation

May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion

Harmful if swallowed.

Signs and Symptoms of Exposure

The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

RTECS Number: LY3850000

Toxicity Data

Intraperitoneal - Rat: 3 GM/KG (LD50)

Oral - Mouse: 4500 mg/kg (LD50)

Intravenous - Mouse: 374 MG/KG (LD50)

Remarks: Behavioral: Convulsions or effect on seizure threshold.

Chronic Exposure - Mutagen

Species Human

Species

Rat

Dose 1 MMOL/L Cell Type

Mutation test lymphocyte DNA inhibition

Chronic Exposure - Reproductive Hazard

Dose

380 MG/KG

Route of Application Subcutaneous

Exposure Time (9D PREG)

642 MG/KG

Subcutaneous

Result: Effects on Fertility; Post-Implantation mortality (e.g., dead and/or resorbed implants per total number of implants). (11D PREG)

Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific Developmental Abnormalities: Musculoskeletal system.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber, Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Non-Hazardous for Air Transport: Non-hazardous for air transport-

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Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xn Indication of Danger

Harmful. R: 22 36/37/38 Risk Statements

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

S: 26 36 Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear sultable protective clothing.

US Classification and Label Text

Indication of Danger

Harmful.

Risk Statements

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

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information

required by the CPR.

DSL: Yes NDSL: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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