

Material Safety Data Sheet

Date Printed: 03/24/2004 Date Updated: 03/10/2003 Version 1.60

Section 1 - Product and Company Information

Product Name

Product Number Brand

GUAIACOL G5502 Sigma Chemical

Company Street Address City, State, Zip, Country Sigma-Aldrich 3050 Spruce Street SAINT LOUIS, MO 63103 US

314 771 5765 800 325 5052

Emergency Phone:

414 273 3850 Ext. 5996

Technical Phone:

Section 2 - Composition/Information on Ingredient

Substance Name GUAIACOL

CAS# 90-05-1 **SARA 313**

No

Formula Synonyms

Guajacol, Guaiacol, Guajakol (Czech), o-Hydroxyanisole, 2-Hydroxyanisole, 1-Hydroxy-2methoxybenzene, o-Methoxyphenol, 2-Methoxyphenol, Methylcatechol, Pyroguaiac acid

Section 3 - Hazards Identification

Emergency Overview

Hamful.

Harmful if swallowed. Irritating to eyes and skin. Readily absorbed through skin. Combustible.

HMIS Rating

Health: 2

Flammability: 2

Reactivity: 1

NFPA Rating

Flammability: 2 Health: 2

Reactivity: 1

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 contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Flash Point:

179.6 °F

N/A

82 °C

Autoignition Temp:

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. Combustible.

Section 6 - Accidental Release Measures

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. Keep away from heat and open flame. Store in a cool dry place.

Special Requirements

Store under inert gas. Air and light sensitive.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Government approved respirator.

Compatible chemical-resistant gloves.

Eye

Chemical safety goggles.

Sigma Chemical - G 5502

Page 2

Sigma-Aldrich Corporation www.sigma-aldric

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Molecular Weight:

Physical State Solid

Color Colorless Form Crystals

760 mmHg

25 °C

At Temperature or Pressure

124.14 AMU

Property Value pН

N/A BP/BP Range 205 °C

26 °C MP/MP Range Freezing Point N/A

Vapor Pressure 0.11 mmHg Vapor Density 4.27 g/l Saturated Vapor Conc. N/A

SG/Density 1.129 g/cm3 **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** Log Kow: 1.32 Decomposition Temp. N/A

Flash Point °F 179.6 °F Flash Point °C 82 °C **Explosion Limits** N/A

N/A

Flammability **Autoignition Temp** N/A 1.543

Refractive Index Solubility

Other Solvents: MISCIBLE WITH ALCOHOL, CHLOROFORM, ETHER, OILS, GLACIAL ACETIC ACID, BENZENE, TOLUENE, SOLUBLE IN SODIUM HYDROXIDE, SOLUTIONS...

Method: closed cup

Method: closed cup

N/A = not available

Section 10 - Stability and Reactivity

Stability

Stable Stable.

Conditions of Instability

May discolor on exposure to light. May discolor on exposure to air.

Materials to Avoid

Strong oxidizing agents, Strong bases.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide.

Sigma Chemical - G5502

Sigma-Aldrich Corporation www.sigma-aldrich.com

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. Readily absorbed through skin.

Eye Contact

Causes eye irritation.

Inhalation

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

Ingestion

Harmful if swallowed.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: SL7525000

Toxicity Data

Oral - Human: 43 mg/kg (LDLO) Remarks: Behavioral:Tremor. Gastrointestinal:Other changes,

Oral - Rat: 520 mg/kg (LD50)

Remarks: Behavioral:General anesthetic.

Oral - Mouse: 621 mg/kg (LD50)

Inhalation - Mouse: 7,570 mg/m3 (LC50)

Intravenous - Mouse: 170 MG/KG (LD50)

Skin - Rabbit: 4,600 mg/kg (LD50)

Irritation Data

Skin - Rabbit: 500 mg 24H

Remarks: Severe irritation effect

Eyes - Rabbit: 5 mg

Remarks: Mild irritation effect

Chronic Exposure - Mutagen

Species <u>Dose</u> Human

500 UMOL/L

Cell Type lymphocyte Mutation test

Sister chromatid exchange Histidine reversion (Ames)

Section 12 - Ecological Information

Acute Ecotoxicity Tests

Test Type EC50 Daphnia **Species**

Daphnia magna

Time:

48.0 h

Value: 25.9 mg/l

Sigma Chemical - G5502

Page 4

Sigma-Aldrich Corporation www.sigma-aldrich.com

Page 3

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.

Section 15 - Regulatory Information

EU Directives Classification

Symbol of Danger: Xn

Indication of Danger

Harmful.

Risk Statements

R: 22 36/38

Harmful if swallowed. Irritating to eyes and skin.

S: 26 Safety Statements

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

US Classification and Label Text

Indication of Danger

Harmful.

Risk Statements

Harmful if swallowed. Irritating to eyes and skin.

Safety Statements

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

US Statements

Readily absorbed through skin. Combustible.

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

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

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. 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 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

Sigma Chemical - G 5502

Page 5

Sigma-Aldrich Corporation www.sigma-aldrich.com