



SAFETY DATA SHEET

Preparation Date: 6/9/2017 Revision date 1/24/2019 Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: GU101

Product Name: GUAIACOL, PURIFIED

Other means of identification

Synonyms: o-Methoxyphenol

1-Hydroxy-2-methoxybenzene

2-Hydroxyanisole 2-Methoxyphenol

Guaicol

Methylcatechol
O-Methyl catechol
Phenol, 2-methoxyPhenol, o-methoxyPyrocatechol methyl ether
Pyrocatechol monomethyl ether

Pyroguaiac acid o-Guaiacol o-Hydroxyanisole

CAS #: 90-05-1
RTECS # SL7525000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Antioxidant. Chemical intermediate.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2

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Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 4

Label elements

Warning

Hazard statements

Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
Combustible liquid



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful in contact with skin

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Keep away from heat/sparks/open flames/hot surfaces. — No smoking Wear protective gloves Wear eye/face protection

Precautionary Statements - Response

In case of fire: Use CO2, dry chemical, or foam to extinguish.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eve irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%	
Guaiacol	90-05-1	100	

4. FIRST AID MEASURES

First aid measures

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General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a

physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Harmful if swallowed. Do not induce vomiting without medical advice. Never give anything

by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes serious eye irritation

Causes skin irritation

Ingestion may cause nausea, vomiting, and diarrhea

Muscle weakness

Burning sensation in the mouth and stomach

Respiratory paralysis or failure
May affect the cardiovascular system

May cause hypothermia

May affect behavior/central nervous system (somnolence, tremor)

Tetanv

Dyspnea (Difficulty breathing and shortness of breath)

It may affect the brain May cause anorexia May affect the blood

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray, mist, or

foam.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter

and spread fire.

Specific hazards arising from the chemical

Hazardous combustion products

Carbon Monoxide, Carbon Dioxide.

Specific hazards Combustible material. May be ignited by heat, sparks or

flames.

Special Protective Actions for Firefighters

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Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Use spark-proof tools

and explosion-proof equipment.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g.

vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste

disposal container. Use only non-sparking tools. Clean contaminated surface

thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Do not ingest. Keep away from heat and sources of ignition. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Air sensitive. Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Strong bases
Strong oxidizing agents
Acid chlorides
Acid anhydrides

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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National occupational exposure limits

United States

L	Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
	Guaiacol	90-05-1	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Guaiacol	90-05-1	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Guaiacol	90-05-1	None	None

Appropriate engineering controls

Ensure and Ensure and

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below

their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

Respiratory protection: Respiratory protection is not necessary for normal handling. Good room

ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Low melting point solid No information available. Light yellow. Yellow.

Liquid above 25 °C

Odor:TasteFormulaAromatic. Phenolic. Sweet.No information available.C7H8O2

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

124.13 g/mol Combustible 82°C/180°F

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Flash Point Tested according to:

Open cup

Autoignition Temperature (°C/°F):

750°C/1382°F

Lower Explosion Limit (%): No information available

Upper Explosion Limit (%):

Melting point/range(°C/°F):

Decomposition temperature(°C/°F): No information available

No information available

27-29 °C/80.6-84.2 °F

Density (g/cm3):

Boiling point/range(°C/°F): 202-209 °C/395.6-408.2 °F

Bulk density:

No information available

No information available

Specific gravity:

Vapor pressure @ 20°C (kPa):

1.129

No information available

0.0137 @ 25 deg. C

Evaporation rate: No information available Vapor density: 4.27

VOC content (q/L): No information available

Odor threshold (ppm):

Partition coefficient

Viscosity:

No information available

(n-octanol/water): log Kow = 1.32

No information available

Miscibility:

Solubility:

Very slightly soluble in water

Solubility in Water: 18,700 mg/l @25 deg. C

Miscible with glacial Acetic Acid

Miscible with Ether

Miscible with oils

Miscible with alcohol

Miscible with Chloroform

Soluble in Carbon tetrachloride Slightly soluble in Petroleum Ether

10. STABILITY AND REACTIVITY

Reactivity

Reacts with strong bases Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions. Darkens with exposure to air and light.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials. Exposure to air. Exposure to light.

Incompatible Materials: Strong bases

Strong oxidizing agents

Acid chlorides Acid anhydrides

Hazardous decomposition

products:

Carbon monoxide. Carbon dioxide.

Other Information

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

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Principal Routes of Exposure:

Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

Guaiacol

CAS No 90-05-1

LD50/oral/rat = 520 mg/kg Oral LD50 Rat

LD50/oral/mouse = 621 mg/kg oral LD50 mouse

LD50/dermal/rabbit = 4600 mg/kg Dermal LD50Rabbit

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = 7570 mg/m³ 2hr Inhalation LC50 Mouse

Other LD50 or LC50information = 2 g/kg oral LD50 rabbit

Product Information

LD50/oral/rat =

Value - Acute Tox = 520 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 621 mg/kg

LD50/dermal/rabbit

Value - Acute Tox = 4600 mg/kg

LD50/dermal/rat

VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation. May be absorbed through the skin. May be harmful in

contact with skin. Absorption into the skin may affect behavior/central nervous

system (somnolence).

Eye Contact: Causes serious eye irritation.

Inhalation May cause irritation of respiratory tract. Can cause dyspnea (shortness of breath

and difficulty breathing). May affect behavior/central nervous system (tetany). It

may affect the brain.

Ingestion Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. Ingestion

may cause nausea, vomiting, diarrhea. Symptoms may include a burning

sensation in the mouth, throat, and stomach. May affect behavior/central nervous

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system (somnolence). May affect behavior/central nervous system (general anesthetic). May affect behavior/central nervous system (tremors, muscle twitiching). May cause muscle weakness. May affect the blood. May affect respiration (shortness of breath). Advanced stages may result in cardiovascular collapse, unconconsiouness, coma, and possible death to respiratory failure. It may cause reduction in body temperature.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may affect metabolism (cause anorexia, weight

loss).

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

	Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Gu	aiacol	90-05-1	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - repeated exposure Target Organs:

No information available. No information available.

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Guaiacol - 90-05-1

Crustacea EC50: =25.9mg/L (48h, Daphnia magna)

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

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Mobility in soilNo information availableOther adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use empty containers Dispose of as unused product.

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Guaiacol	90-05-1	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Class
Packing group:
No information available

Number

Marine Pollutant No data available

DOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available

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Packing Group: No information available
Marine Pollutant No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements No information available
No information available
No information available
IF exposed or concerned

Response

Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Guaiacol	90-05-1	PresentACTIV E	Present KE-23352	Present	Present (3)-567	Present	Present	Present 201-964-7

U.S. Regulations

Guaiacol

FDA - Direct Food Additives 21 CFR 172.515 FDA - 21 CFR - Total Food Additives 172.515

- List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity		Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Guaiacol	90-05-1	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
		Hazardous	Extremely	Extremely	Chemical Category	Reporting

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		Substances and their Reportable Quantities	Hazardous Substances and TPQs	Hazardous Substances and RQs		de minimis
Guaiacol	90-05-1	None	None	None	None	None

U.S. TSCA

Component		With Significant New Use Rules	TSCA 8(d) -Health and Safety Reporting
		(SNURS)	
Guaiacol	90-05-1	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Guaiacol	90-05-1	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Guaiacol	90-05-1	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Guaiacol	90-05-1	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Guaiacol	90-05-1	Acute toxicity - Oral - Acute Tox. 4:
		H302 Harmful if swallowed. (Minimum
		classification); Skin corrosion/irritation
		- Skin Irrit. 2: H315 Causes skin
		irritation.; Serious Eye Damage/Eye
		Irritation - Eye Irrit. 2: H319 Causes
		serious eye irritation.604-031-00-6

EU - CLP (1272/2008)

R-phrase(s)

R22 - Harmful if swallowed

R36/38 - Irritating to eyes and skin

S -phrase(s)
S 2 - Keep out of the reach of children.

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

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Component	CAS No	Classification	Concentration	Safety Phrases
			Limits:	
Guaiacol		Xn; R22 Xi; R36/38	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xn - Harmful Xi - Irritant





16. OTHER INFORMATION

Preparation Date: 6/9/2017
Revision date 1/24/2019
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

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