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Safety Data Sheet
according to
the Preparation of SDS for Hazardous Chemicals
Code of Practice February 2016 – Safe Work Australia

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1 Product Identifier:

Trade name: Eugenol

Other names: Phenol, 2-methoxy-4-(2-propenyl)-, Phenol, 4-allyl-2-methoxy, 4-Allylcatechol-2-methyl ester

1.2 Recommended use of chemical and restrictions of use

Identified uses: Industrial chemicals, Manufacture of substances. Mild analgesic and as a flavour in Dentifrices.

1.3 Details of the supplier for the safety data sheet

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1.4 Emergency Telephone: Poisons Information Centre (National) 13 11 26

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

SECTION 2: Hazards Identification

2.1 GHS classification(s)

Acute Toxicity – Oral	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Respiratory or Skin Sensitization	Category 1
Hazardous to the Aquatic Environment	Category 2

2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word: WARNING

Hazard statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P301+P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell
P302+P352	IF ON SKIN: Wash with plenty of water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P337+P313	If eye irritation persists get medical advice/attention
P362+P364	Take off contaminated clothing and wash it before reuse
P391	Collect spillage

Storage

Store away from incompatible materials

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

Poisons Schedule (SUSMP): None allocated

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical Name: Eugenol

Component Principle	CAS number	EINECS number	Proportion (%w/w)
Eugenol	97-53-0	202-589-1	>98%

SECTION 4: First aid measures**4.1 General Advice**

Contact a Poisons information centre (In Australia ph 131 126; New Zealand ph 0800 764 766) or consult with a physician. Show this safety data sheet to the doctor in attendance.

4.2 Inhalation

Remove affected person into fresh air – avoid inhalation. Allow patient to assume comfortable position for breathing and keep warm. If not breathing, perform artificial respiration (CPR). Seek medical advice.

4.3 Skin Contact

Immediately remove any contaminated clothing, wash skin and hair with plenty of soap and water. If skin swelling, redness, blistering or other irritation occur, seek medical advice. Ensure contaminated clothing is washed before reuse.

4.4 Eye Contact

Rinse cautiously with plenty of water for at least 15 minutes. Seek medical advice.

4.5 Ingestion

If swallowed DO NOT induce vomiting. Rinse mouth with water. Consult a physician.

4.6 Most important symptoms and effects, both acute and delayed

These symptoms and effects are described in the GHS labelling elements (see section 2) an/or in section 11

4.7 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures**5.1 Suitable extinguisher equipment**

Small (incipient fires) – use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Large fires – apply water from as far as possible. Use very large quantities of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known

5.3 Special protective equipment and precautions for fire fighters

Wear self contained breathing apparatus for fire fighting if necessary

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Do not inhale vapours/aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate personnel to safe areas. Further information regarding personal protection. (see Section 8)

6 continued**6.2 Environmental precautions**

Contain spill to prevent run off into drains and waterways. If contamination of sewers or waterways has occurred advise local emergency services.

6.3 Environmental materials for containment and cleaning up

Contain spillage and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

6.4 Reference to other sections

For further information regarding disposal, see Section 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour and mist. Keep away from sources of ignition – No smoking, flares, sparks or flames. Take measures to prevent the build up of electrostatic charge. For precautions, see Section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, dry and well-ventilated place.

7.3 Specific end use(s)

A part from the uses mentioned in Section 1.2, no other specific uses stipulated.

SECTION 8: Exposure and controls/personal protection**8.1 Control parameters**

Not aware of any national exposure limits.

8.2 Exposure controls**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of work day.

Individual protection measures, such as Personal Protective Equipment (PPE)

Selection of PPE should be dependent on independent situational risk assessment. This assessment should consider the physical form of material, operational processes, and environmental factors.

Eye/face protection

Safety eyewear with side-shield conforming to AS/NZS 1337 part 1-6: Eye protectors for industrial applications.

Skin protection

Selection of protective gloves are to satisfy AS/NZS 2161 Set: 2008: Occupational protective gloves. Wear gloves when handling. Glove should be inspected for defects prior to use. Removal of gloves after use should avoid contact with skin. Dispose contaminated gloves after use in accordance with applicable laws and with typical good laboratory practice.

8.2 continued**Body protection**

Flame retardant antistatic protective clothing. Type of clothing must be selected according to concentration, amount and specific work process involving the substance.

Respiratory protection

Use a full face respirator as a back up to engineering controls. Respiratory protective devices are to satisfy AS/NZS 1715:2009. Selection, use and maintenance of respiratory protective devices.

General

Always wash hands before smoking, eating drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage and re-use. Apply skin protective barrier cream.



Goggles



Impervious Gloves

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Form: Liquid **Colour:** colourless, pale yellow **Odour:** strong clove-like, spicy, pungent odour

Odour threshold: no data available

pH: no data available

Melting point/Freezing point: -9.2°C

Initial boiling point and boiling range: 252°C

Flash point: 104°C

Evaporation rate: no data available

Flammability: no data available

Upper/lower flammability or explosive limits: **Upper:** no data available **Lower:** no data available

Vapour pressure: 0.01mm Hg at 25°C

Vapour density: 5.7

Relative density: @ 25/25°C 1.0450-1.0850

Solubility: Water: insoluble

Partition coefficient: 2.3

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity: no data available

Explosive properties: no data available

Oxidising Properties: no data available

9.2 Other safety information

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

The product is stable and non-reactive under normal conditions of use, storage and transport

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reaction

No data available

10.4 Conditions to avoid

Heat, flames and sparks

10.5 Incompatible material

Alkaline metals

10.6 Hazardous decomposition products

No data available. In the event of fire, see Section 5.

SECTION 11: Toxicology information**11.1 Information on toxicological effects****Acute toxicity**

LD50 Oral, rat: Dose: 1930 mg/kg

LD50 Dermal rabbit: Dose 5000 mg/kg

Skin corrosion/irritation

Causes skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation

Respiratory or skin sensitisation

May cause an allergic skin reaction

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

May cause respiratory irritation

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Additional information

No data available

SECTION 12: Ecological information**12.1 Toxicity**

Toxic to aquatic life with long lasting effects

Crustacea	EC50	Daphnia magna	1.13mg/l, 48 hours
Crustacea	LD50	Invertebrates (Invertebrates)	0.012mg/kg
Fish	LC50	Danio rerio	13mg/l, 96 hours
Fish	LC50	Oncorhynchus mykiss	60.8mg/l, 96 hours

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product: Contact a licensed professional waste disposal service to dispose of this material. Refer to Waste Management Authority.

Contaminated packaging: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number: ADR/RID: 3082, IMDG: 3082, IATA-DGR: 3082

14.2 UN proper shipping name:

ADR/RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EUGENOL)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EUGENOL)
IATA-DGR:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EUGENOL)

14 continued**14.3 Transport hazard class(es)**

ADR/RID: 9

IMDG: 9

IATA-DGR: 9

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA-DGR: III

14.5 Environmental hazards for transport purposes

ADR/RID, IMDG, IATA-DGR:

14.6 Special precautions for user

See Section 6-8

14.7 Additional Information

No data available

SECTION 15: Regulatory information**Incumbent safety, health and environmental regulations for the substance(s).****Standard for the Uniform scheduling of Medicines and Poisons**

Not listed in Workplace Exposure Standards for Airborne Contaminants

Carcinogen classification under WHS Regulation 2011, Schedule 10

Not listed in Workplace Exposure Standards for Airborne Contaminants

Notifications and assessment status

AICS: Listed and in compliance of this inventory database

DSL: All components of this product are on the Canadian DSL

ENCS: Listed and in compliance of this inventory database

IECSC: Listed and in compliance of this inventory database

ISHL: Listed and in compliance of this inventory database

KECI: Listed and in compliance of this inventory database – KE - 23385

NZIoC: Listed and in compliance of this inventory database – HSNO Approval Code HSR003486

PICCS: Listed and in compliance of this inventory database

SECTION 16: Other information**Reason(s) for issue**

Alignments to GHS requirements

Further information

All information is believed to be correct but is not purport to be all inclusive and should be used as a general guidance only.

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