

SAFETY DATA SHEET

Section 1 - Identification of Substance or Mixture and Company

Product identify:

Product name: Methyl eugenol
Synonyms: 4-Allyl-1,2-dimethoxybenzene
Catalog number: PI-33038

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company identification: PI Chemicals Ltd.
633 Eshan Road,
Pudong New Area, Shanghai China, 201203

Telephone number: +86-21-58953700

Fax number: +86-21-58953701

E-mail address: info@pipharm.com

Emergency telephone number

Emergency number: +86-21-58953706

Section 2 - Hazards Identification

Classification of the substance or mixture:

Regulation (EC) No 1272/2008

Acute toxicity, Oral	Category 4
Skin irritation	Category 2
Eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity - single exposure	Category 3
Acute aquatic toxicity	Category 2

Label elements

Classification according to (EC) No 1272/2008



Signal word: Warning

Hazard statement(s):

H302: Harmful if swallowed

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H351: Suspected of causing cancer

H401: Toxic to aquatic life

Precautionary statement(s)

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray

P281: Use personal protective equipment as required

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Accroding to EU Directive 67/548/EEC or 1999/45/EC.

Symbol(s): Xn Harmful

Risk phrases:

R 22: Harmful if swallowed

R 36/37/38: Irritating to eyes, respiratory system and skin

R 40: Limited evidence of a carcinogenic effect

Safety phrases:

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection

HMIS classification:

Health hazard: 2

Chronic health hazard: *

Flammability: 1

Physical hazards : 0

NFPA rating:

Health hazard: 2

Fire: 1

Reactivity hazard: 0

Section 3: Composition & Information on Ingredients

Molecular formula: C₁₁H₁₄O₂

Molecular weight: 178.23

Component		Concentration
CAS Number:	93-15-2	98%
EC Number:	202-223-0	

Section 4 - First Aid Measures

- Eye:* Flush eyes with plenty of water for at least 15 minutes. Get medical aid if symptoms appear.
- Skin:* Wash skin with plenty of water at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
- Ingestion:* Wash mouth out with water. Get medical aid immediately.
- Inhalation:* Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical aid.

Section 5 – Fire-Fighting Measures

- Extinguishing media:* Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
- Special hazards arising from the substance or mixture:* Carbon oxides
- Advice for firefighters:* Wear a self-contained breathing apparatus for fire fighting if necessary

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use proper personal protective equipment as indicated in Section 8.

Environmental precautions: Prevent further spillage or leakage when safe and capable

Methods and materials for containment and cleaning up:

Vacuum or sweep up material and keep in a suitable closed container for disposal. Do not flush with water.

Section 7 - Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and spray mist.

Conditions for safe storage, including any incompatibilities:

Store in a dry, well-ventilated place. Keep tightly closed.

Recommended storage temperature: 2 - 8 °C

Section 8 - Exposure Controls/Personal Protection

Control parameters:

Contains no materials with occupational exposure limits.

Exposure controls:

Ensure well ventilation, good industrial hygiene and safety practice.

Personal protective equipment

Eye/Face protection:

Wear appropriate protective eyeglasses under the standards such as EN166(EU) or type ABEK(EN14387).

Skin/Body protection:

Wear appropriate protective gloves which have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it to prevent skin exposure. Dispose of contaminated gloves in accordance with applicable laws. Wash and dry hands.

Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection:

Use an approved respirator and components under appropriate government standards such as NIOSH(US) or CEN(EU) if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9- Physical and Chemical Properties

<i>Physical state:</i>	Liquid
<i>Color:</i>	Colorless to light yellow
<i>Odour:</i>	No data available
<i>Melting point/freezing point:</i>	-4°C
<i>Initial boiling point and boiling range:</i>	254 - 255°C at 760mmHg
<i>Flash point:</i>	110°C - closed cup
<i>Evaporation rate:</i>	No data available
<i>Flammability(solid, gas):</i>	No data available
<i>Upper/lower flammability or explosive limits:</i>	No data available
<i>Vapour pressure:</i>	No data available
<i>Vapour density:</i>	No data available
<i>Relative density:</i>	1.036g/cm ³ at 25°C
<i>Solubility:</i>	No data available
<i>Partition coefficient: n-octanol/water:</i>	No data available
<i>Auto-ignition temperature:</i>	No data available
<i>Decomposition temperature:</i>	No data available
<i>Viscosity:</i>	No data available

Section 10-Stability and Reactivity

<i>Reactivity:</i>	No data available
<i>Chemical stability:</i>	Stable under recommended temperatures and pressures.
<i>Possibility of hazardous reactions:</i>	No data available
<i>Conditions to avoid:</i>	No data available
<i>Incompatible materials:</i>	No data available
<i>Hazard Decomposition products:</i>	Carbon oxides

Section 11 - Toxicological Information

Acute toxicity:

Component: Methyl eugenol

LD50 Oral - rat - 810 mg/kg.

Skin corrosion/irritation:

Skin - rabbit -

Serious eye damage/eye irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

Limited evidence of carcinogenicity in animal studies

Not listed as a carcinogen by ACGIH, IARC, or CA Prop 65.

NTP: Reasonably anticipated to be a human carcinogen (4-Allylveratrole)

Reproductive toxicity:

No data available

Specific target organ toxicity(STOT)-single exposure: Inhalation - May cause respiratory irritation*Specific target organ toxicity (STOT)-repeated exposure:* No data available*Aspiration hazard:*

No data available

Additional information:

RTECS#: CY2450000

Section 12 – Ecological Information*Toxicity:*

Component: Methyl eugenol

LC50 - Oncorhynchus mykiss (rainbow trout) - 6 mg/l - 96 h

Persistence and degradability:

No data available

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

Results of PBT and vPvB assessment:

No data available

Other adverse effects:

No data available

Section 13 - Disposal Consideration*Waste treatment methods**Product:*

Dispose of in accordance with federal, state and local environmental regulations

Contaminated packaging:

Dispose of as unused product

Section 14 - Transport Information*IATA*

Not dangerous goods

IMDG

Not dangerous goods

RID/ADR

Not dangerous goods

DOT(US)

Not dangerous goods

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

Chemical safety assessment: No data available

Section 16 – Other Information

SDS creation date: May 06, 2013

Update: Sep 11, 2013

Disclaimer:

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