# Chemical Safety Data Sheet MSDS / SDS

# **Phenetole**

Revision Date: 2024-04-27 Revision Number: 1

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

#### **Product identifier**

Product name : Phenetole

CBnumber : CB5120611

CAS : 103-73-1

EINECS Number : 203-139-7

Synonyms : Phenetole,ethoxybenzene

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.

Uses advised against : none

### **Company Identification**

Company : Chemicalbook

Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing

Telephone : 400-158-6606

# SECTION 2: Hazards identification

### Classification of the substance or mixture

Flammable liquids, Category 3

### Label elements

### Pictogram(s)

Signal word Warning

### Hazard statement(s)

H226 Flammable liquid and vapour

### Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

,

P370+P378 In case of fire: Use ... for extinction.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to.....

#### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

#### Response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].

P370+P378 In case of fire: Use ... to extinguish.

#### Storage

P403+P235 Store in a well-ventilated place. Keep cool.

#### Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### Other hazards

no data available

# SECTION 3: Composition/information on ingredients

### **Substance**

Product name : Phenetole

Synonyms : Phenetole,ethoxybenzene

CAS : 103-73-1
EC number : 203-139-7
MF : C8H10O
MW : 122.16

# **SECTION 4: First aid measures**

# Description of first aid measures

### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately.

### Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

### Most important symptoms and effects, both acute and delayed

no data available

# Indication of any immediate medical attention and special treatment needed

### Absorption, Distribution and Excretion

Excreted as glucuronide & ethereal sulfate.

# **SECTION 5: Firefighting measures**

### **Extinguishing media**

Use dry chemical, carbon dioxide or alcohol-resistant foam.

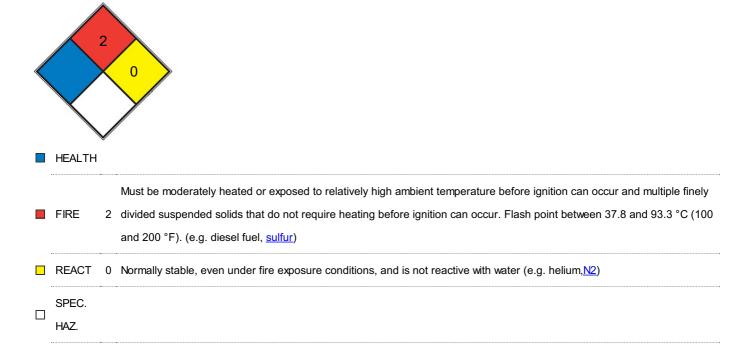
# **Specific Hazards Arising from the Chemical**

no data available

### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### **NFPA 704**



# SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### **Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# SECTION 7: Handling and storage

### Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

# SECTION 8: Exposure controls/personal protection

### **Control parameters**

#### Occupational Exposure limit values

no data available

#### **Biological limit values**

no data available

### **Exposure controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area.

# Individual protection measures

### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

# Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

# SECTION 9: Physical and chemical properties

# Information on basic physicochemical properties

| Physical state                             | Liquid  |
|--|---|
| Colour                                     | Clear colorless to very slightly yellow   |
| Odour                                      | DISTINCTIVE ODOR  |
| Melting point/freezing point               | -30 °C. Remarks:Other details not available.  |
| Boiling point or initial boiling point and | 182 °C. Atm. press.:955 hPa. Remarks:Other details not available.                         |
| boiling range                              |   |
| Flammability                               | no data available   |
| Lower and upper explosion                  | no data available   |
| limit/flammability limit                   |   |
| Flash point                                | 63 °C.  |
| Auto-ignition temperature                  | Atm. press.:955 hPa. Remarks:Phenetole did not catch fire on being exposed to air at room |
|  | temperature of 23 degC.   |
| Decomposition temperature                  | no data available   |
| рН   | 4.71. Remarks:Acidic.   |
| Kinematic viscosity                        | dynamic viscosity (in mPa s) = 11.225. Temperature:23.0°C.                                |
| Solubility                                 | alcohol: freely soluble(lit.)   |
| Partition coefficient n-octanol/water      | Pow = 110. Temperature:23 °C.   |
| Vapour pressure                            | 1.7. Temperature:25 °C. Remarks:When 0.23 kPa converted to mmHg it is equivalent to 1.7.  |
| Density and/or relative density            | 0.886 g/cm3. Temperature:23 °C.   |
| Relative vapour density                    | no data available   |
| Particle characteristics                   | no data available   |
|  |   |

# SECTION 10: Stability and reactivity

# Reactivity

no data available

# **Chemical stability**

no data available

# Possibility of hazardous reactions

no data available

# Conditions to avoid

no data available

# Incompatible materials

no data available

# Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

# **Acute toxicity**

- Oral: LD50 mouse 2 200 mg/kg bw. Remarks:50 percent mortality observed.
- Inhalation: LC50 rat 8 949 mg/m3 air.
- Dermal: LD50 rabbit (male) 2.03 mL/kg bw.

#### Skin corrosion/irritation

no data available

# Serious eye damage/irritation

no data available

# Respiratory or skin sensitization

no data available

# Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

# Reproductive toxicity

no data available

# STOT-single exposure

no data available

### STOT-repeated exposure

no data available

### **Aspiration hazard**

no data available

# SECTION 12: Ecological information

### **Toxicity**

Toxicity to fish: LC50 - Leuciscus idus melanotus - 120 mg/L - 48 h.

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - 117.032 mg/L - 48 h.

Toxicity to algae: EC50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) - 162 mg/L - 96 h.

Toxicity to microorganisms: EC50 - Photobacterium phosphoreum - 7.53 mg/L - 30 min.

### Persistence and degradability

A two-week biodegradation study using 30 mg/l sludge and a phenetole concentration of 100 mg/l gave a theoretical BOD of 63%(1). Using an electrolytic respirometer, phenetole had a theoretical BOD of 52-69% after a lag of 130-150 hours(2).

### Bioaccumulative potential

An estimated BCF value of 48 was calculated for phenetole(SRC), using an experimental log Kow of 2.51(1) and a recommended regression-derived equation(2). According to a classification scheme(3), this BCF value suggests that bioconcentration in aquatic organisms may be moderate, not high(SRC).

### Mobility in soil

The Koc of phenetole is estimated as approximately 550(SRC), using an experimental log Kow of 2.51(1) and a regression-derived equation(2,SRC). According to a recommended classification scheme(3), this estimated Koc value suggests that phenetole has low mobility in soil(SRC).

#### Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

# **Disposal methods**

### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# SECTION 14: Transport information

# **UN Number**

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### **UN Proper Shipping Name**

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### Transport hazard class(es)

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

# Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### **Environmental hazards**

ADR/RID: No

IMDG: No

IATA: No

### Special precautions for user

no data available

### Transport in bulk according to IMO instruments

no data available

# **SECTION 15: Regulatory information**

# Safety, health and environmental regulations specific for the product in question

**European Inventory of Existing Commercial Chemical Substances (EINECS)** 

Listed.

**EC Inventory** 

Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Listed.

China Catalog of Hazardous chemicals 2015

Not Listed.

New Zealand Inventory of Chemicals (NZIoC)

Listed.

**PICCS** 

Not Listed.

**Vietnam National Chemical Inventory** 

Listed.

**IECSC** 

Listed.

# **SECTION 16: Other information**

#### Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

 ${\it CAMEO\ Chemicals, website: http://cameochemicals.noaa.gov/search/simple}$ 

ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

### Disclaimer:

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