



Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: 4-Methoxyphenol(p-)

SDS No. : 3772E-3

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Safety Management Dept. of Chemicals

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

e-mail address: kagakuhinanzenkanri@kishida.co.jp

2. Hazards identification

GHS classification and label elements of the product**Classification of the substance or mixture****HEALTH HAZARDS**

Acute toxicity (Oral): Category 4

Serious eye damage/eye irritation: Category 2B

Skin sensitization: Category 1

Carcinogenicity: Category 2

Reproductive toxicity: Category 1A

Reproductive toxicity – effects on or via lactation: Additional category

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment (Acute): Category 2

(Note) GHS classification without description: Not classified/Classification not possible

Label elements

Signal word: Danger

HAZARD STATEMENT

Harmful if swallowed

Causes eye irritation

May cause an allergic skin reaction

Suspected of causing cancer

May damage fertility or the unborn child

May cause harm to breast-fed children

Toxic to aquatic life

PRECAUTIONARY STATEMENT**Prevention**

Avoid release to the environment.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash contaminated parts thoroughly after handling.

Wear protective gloves.

Contaminated work clothing should not be allowed out of the workplace.

Do not eat, drink or smoke when using this product.

Response



IF exposed or concerned: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Rinse mouth.

Disposal

Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients**Mixture/Substance selection:****Substance**

Ingredient name:4-Methoxyphenol(p-)

Content (%):99(min)

Chemical formula:CH₃OC₆H₄OH

Chemicals No, Japan:3-567

CAS No.:150-76-5

MW:124.14

ECNO:205-769-8

Note : The figures shown above are not the specifications of the product.

Impurities

Toluene <0.50% (CAS No.108-88-3)

4. First-aid measures**Descriptions of first-aid measures****General measures**

IF exposed or concerned: Get medical advice/attention.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.



Specific hazards arising from the substance or mixture
Containers may explode when heated.
Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

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

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Avoid raising dust.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

Collect spillage.

7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

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

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures

Wear protective gloves, protective clothing or face protection.

When using do not eat, drink or smoke.

Any incompatibilities

See "10.Stability and Reactivity"

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash it before reuse.

Storage

Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

Block out light.

Container and packaging materials for safe handling



Glass
Polyethylene

8. Exposure controls/personal protection

Control parameters

Adopted value

(4-Methoxyphenol(p-))

ACGIH(1992) TWA: 5mg/m³ (Eye irr; skin dam)

(Toluene)

ACGIH(2006) TWA: 20ppm (Visual impair; female repro; pregnancy loss)

OSHA-PEL

(Toluene)

TWA: 200ppm; STEL: C 300ppm

Acceptable maximum peak: 500ppm; Maximum Duration: 10min

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Crystalline powder

Color: White to yellow brown

Odor: Characteristic odor

Melting point/Freezing point: 57°C

Boiling point or initial boiling point: (4-Methoxyphenol(p-))243°C

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point: (4-Methoxyphenol(p-))(O.C.) 132°C

Auto-ignition temperature: (4-Methoxyphenol(p-))421°C

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: 4 g/100 ml (25°C)

n-Octanol/water partition coefficient: log Pow1.58

Vapor pressure data is not available.

Density and/or relative density: 1.6 g/cm³

Relative vapor density (Air=1): 4.3

No Particle characteristics data is not available.

10. Stability and Reactivity

**Reactivity**

Not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

(4-Methoxyphenol(p-))

Dust explosion possible if in powder or granular form, mixed with air.

Reacts with strong oxidants, strong bases, acid anhydrides and acid chlorides. The solution in water is a weak acid. (ICSC 1097)

(Toluene)

Reacts violently with strong oxidants. This generates fire and explosion hazard. (ICSC 0078)

Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Strong bases, Strong oxidizing agents, Acid anhydrides, Acid chlorides

Hazardous decomposition products

Carbon oxides

11. Toxicological Information**Information on toxicological effects****Acute toxicity****Acute toxicity (Oral)**

[GHS Cat. Japan, base data]

(4-Methoxyphenol(p-))

rat LD50=1600mg/kg (ACGIH, 1997; PATTY, 6th, 2012)

Acute toxicity (Dermal)

[GHS Cat. Japan, base data]

(4-Methoxyphenol(p-))

rabbit LD50>2000mg/kg (NICNAS IMAP, 2018; REACH registration information, Accessed Oct. 2018)

Acute toxicity (Inhalation)

[GHS Cat. Japan, base data]

(Toluene)

vapor: rat LC50=3319-8800ppm/4hr (EU-RAR, 2003) et al.

Irritant properties**Skin corrosion/irritation**

[GHS Cat. Japan, base data]

(Toluene)

rabbit moderate irritation (EU-RAR, 2003)

Serious eye damage/irritation

[GHS Cat. Japan, base data]

(4-Methoxyphenol(p-))

rabbit mild to moderate irritation recover within 7 days (NICNAS IMAP, Accessed Oct. 2018)

(Toluene)

rabbit slight eyes irritation (EU-RAR, 2003)

Sensitization**Skin sensitization**

[GHS Cat. Japan, base data]

(4-Methoxyphenol(p-))

cat. 1; guinea pig : NICNAS IMAP, Accessed Aug. 2018 et al.

Mutagenic effects data is not available.

Carcinogenicity



[GHS Cat. Japan, base data]
(4-Methoxyphenol(p-))
cat.2; (NICNAS IMAP, Accessed Oct. 2018 et al.)
(Toluene)
IARC-Gr.3 : Not Classifiable as a Human Carcinogen
(Toluene)
ACGIH-A4(2006) : Not Classifiable as a Human Carcinogen

Reproductive toxicity

[GHS Cat. Japan, base data]
(4-Methoxyphenol(p-))
cat. 2; rat : CIR Expert Panel, 2014
(Toluene)
cat. 1A; CERI/NITE risk assessment 87, 2006
(Toluene)
cat. add; SIDS(J), Access on Apr. 2012

STOT

STOT-single exposure
[cat.3 (resp. irrit.)]
[GHS Cat. Japan, base data]
(Toluene)
respiratory tract irritation (PATTY 5th, 2001)
[cat.3 (drow./dizz.)]
[GHS Cat. Japan, base data]
(Toluene)
narcotic effect (EHC 52, 1985; IARC 47, 1989)
STOT-repeated exposure data is not available.

Aspiration hazard

[cat.1]
[GHS Cat. Japan, base data]
(Toluene)
cat. 1; hydrocarbon, kinematic viscosity =0.86 mm²/s (40°C)

Information on other hazards

May cause lung disorders by massive inhalation of powdered substance.
-e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

12. Ecological Information**Ecotoxicity****Aquatic toxicity**

Toxic to aquatic life

Hazardous to the aquatic environment (Acute)

[GHS Cat. Japan, base data]
(4-Methoxyphenol(p-))
Crustacea (Daphnia magna) EC50=2.2mg/L/48hr (NLM HSDB, 2018; EPA/OPPT)
(Toluene)
Crustacea (Ceriodaphnia dubia) EC50=3.78mg/L/48hr (NITE primary risk assessment, 2006)

Hazardous to the aquatic environment (Long-term)

[GHS Cat. Japan, base data]
(Toluene)
Crustacea (Ceriodaphnia dubia) NOEC=0.74mg/L/7days (NITE primary risk assessment, 2006)

Water solubility

(4-Methoxyphenol(p-))
4 g/100 ml (25°C) (ICSC, 2004)



(Toluene)
none (ICSC, 2002)

Persistence and degradability

(4-Methoxyphenol(p-))
Degrade rapidly (BOD_Degradation : 86% (CSCL DB, 1990))
(Toluene)
BOD_Degradation : 123% (Registered chemicals data check & review)

Bioaccumulative potential

(4-Methoxyphenol(p-))
log Kow=1.58 (PHYSPROP DB, 2018)
(Toluene)
log Kow=2.73 (PHYSPROP DB, 2008)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Avoid release to the environment (- if this is not the intended use).
Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No. or ID No.: Not applicable

Not applicable to IMDG Code

Not applicable to IATA Dangerous Goods Regulations

Environmental hazards

MARPOL Annex III - Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

MARPOL Annex V - Prevention of pollution by garbage discharge

Reproductive toxicity: cat.1, 1A, 1B

Toluene

15. Regulatory Information

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

Chemicals listed in TSCA Inventory

Toluene; 4-Methoxyphenol(p-)

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

GHS classification and labelling

Acute Tox. 4: H302 Harmful if swallowed
Eye Irrit. 2B: H320 Causes eye irritation
Skin Sens. 1: H317 May cause an allergic skin reaction
Carc. 2: H351 Suspected of causing cancer
Repr. 1A: H360 May damage fertility or the unborn child



Lact.: H362 May cause harm to breast-fed children

Aquatic Acute 2: H401 Toxic to aquatic life

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (7th revised edition, 2017), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (61th Edition) 2020

Classification, labelling and packaging of substances and mixtures (Table 3 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2020 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2019).