

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name : 4-METHYL-1-PENTEN-3-OL
CAS-No. : 4798-45-2

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

Identified uses : Laboratory chemicals, Manufacture of substances

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram : none

Signal word : none

Hazard statement(s) : none

Precautionary statement(s) : none

Supplemental Hazard Statements : none

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment:

Caution - substance not yet tested completely.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : C6H12O
Molecular Weight : 100,16 g/mol

Component : Concentration

4-Methyl-1-penten-3-ol

CAS-No. : 4798-45-2

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4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for fire fighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. 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.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance : Form: solid

b) Odour : no data available

c) Odour Threshold : no data available

d) pH : no data available

e) Melting point/freezing point : no data available

f) Initial boiling point and boiling range : no data available

g) Flash point : no data available

h) Evaporation rate : no data available

i) Flammability (solid, gas) : no data available

j) Upper/lower flammability or explosive limits : no data available

k) Vapour pressure : no data available

l) Vapour density : no data available

m) Relative density : no data available

n) Water solubility : no data available

o) Partition coefficient: n-octanol/water : log Pow: 1,296

p) Autoignition temperature : no data available

q) Decomposition temperature : no data available

r) Viscosity : no data available

s) Explosive properties : no data available

t) Oxidizing properties : no data available

9.2 Other safety information

no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

Mild eye irritation

Respiratory or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity

Carcinogenicity

IARC:

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

WHO:

No component of this product present at levels greater than or equal to 0.1% is identified as

EU:

No component of this product present at levels greater than or equal to 0.1% is identified as

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as

NIOSH:

No component of this product present at levels greater than or equal to 0.1% is identified as

MSDS:

No component of this product present at levels greater than or equal to 0.1% is identified as

LD50:

No component of this product present at levels greater than or equal to 0.1% is identified as

LC50:

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50:

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (inhalation):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (dermal):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (inhalation, dermal):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (inhalation, oral):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (oral):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (oral, dermal):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (oral, inhalation):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (inhalation, oral, dermal):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (inhalation, oral, inhalation):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (inhalation, oral, inhalation, dermal):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (inhalation, oral, inhalation, oral, dermal):

No component of this product present at levels greater than or equal to 0.1% is identified as

EC50 (inhalation, oral, inhalation, oral, inhalation, dermal):