



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.02.2023

version: 1

Revision: 15.02.2023

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

1.1 Product identifier:

Trade name: **p-cymene**

Article number: 80836

CAS Number:

99-87-6

EC number:

202-796-7

Index number:

601-094-00-1

Registration number 01-2120807345-59-XXXX

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

No further relevant information available.

Application of the substance / the preparation: Reference substance

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier:

PhytoLab GmbH & Co. KG

Dutendorfer Str. 5-7

D-91487 Vestenbergsgreuth

Tel.: Germany/9163/88-327

Fax: Germany/9163/88-456

Mail: ref-substances@phytolab.de

Further information obtainable from: PLV_MSDS@phytolab.com

1.4 Emergency telephone number: Germany/9163/88-500

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

Repr. 2 H361f Suspected of damaging fertility.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.02.2023

version: 1

Revision: 15.02.2023

 Trade name: **p-cymene**

(Contd. of page 1)



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS02 GHS06 GHS08 GHS09

Signal word: Danger

Hazard statements:

H226 Flammable liquid and vapour.

H331 Toxic if inhaled.

H361f Suspected of damaging fertility.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P261 Avoid breathing mist/vapours/spray.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards:

Restricted to professional users. The toxicological properties of this compound have not been fully evaluated.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms: p-cymene

 Molecular formula: C₁₀H₁₄

(Contd. on page 3)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.02.2023

version: 1

Revision: 15.02.2023

Trade name: **p-cymene**

(Contd. of page 2)

CAS No. Description

99-87-6 p-cymene

Identification number(s)

EC number: 202-796-7

Index number: 601-094-00-1

Additional information: chemical product

Acute toxicity estimate (ATE) values LC50/4 h inhalative: 3 mg/l

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information:

Induce vomiting only with medical help.

Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air and to be sure call for a doctor.

After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 Advice for firefighters:

Protective equipment:

Wear fully protective suit.

Mount respiratory protective device.

EU

(Contd. on page 4)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.02.2023

version: 1

Revision: 15.02.2023

Trade name: **p-cymene**

(Contd. of page 3)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Keep away from ignition sources.

Ensure adequate ventilation

Do not breathe vapor/aerosols. Avoid skin and eye contact.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Handling corresponding to laboratory safety guidelines.

Keep receptacles tightly sealed.

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Keep away from heat and direct sunlight.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Store in the dark.

Store in cool, dry conditions in well sealed receptacles.

Recommended storage temperature: 15-25 °C

Storage class: 3

7.3 Specific end use(s): No further relevant information available.

EU

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.02.2023

version: 1

Revision: 15.02.2023

Trade name: **p-cymene**

(Contd. of page 4)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls:

Appropriate engineering controls: No further data; see item 7.

Individual protection measures, such as personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.

Immediately remove all soiled and contaminated clothing

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Store protective clothing separately.

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.

Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:



Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection:



Tightly sealed goggles

Body protection: Protective work clothing

EU

(Contd. on page 6)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 15.02.2023

version: 1

Revision: 15.02.2023

Trade name: **p-cymene**

(Contd. of page 5)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:

Physical state:	Fluid
Colour:	According to Certificate of Analysis
Odour:	No data available.
Odour threshold:	Not determined.
Molecular Weight	
Melting point/freezing point:	-68 °C
Boiling point or initial boiling point and boiling range:	177 °C
Flammability:	Flammable.
Dust explosion class:	
Lower and upper explosion limit:	
Lower:	0.7 Vol %
Upper:	5.6 Vol %
Flash point:	47 °C
(Minimum) Ignition temperature:	435 °C
Decomposition temperature:	Not determined.
Powder volume resistivity:	
pH:	Not determined.
Dissociation constant:	
Viscosity:	
Kinematic viscosity:	Not determined.
Solubility in other solvents:	
Dynamic:	Not determined.
Solubility:	
water:	Insoluble.
Partition coefficient n-octanol/water (log value) at 20 °C:	4.8 (ECHA)
Vapour pressure:	Not determined.
Density and/or relative density:	
Density at 20 °C:	0.86 g/cm ³
	Not determined.
Relative density:	Not determined.
Vapour density:	Not determined.
9.2 Other information:	
Appearance:	
Form:	Fluid

(Contd. on page 7)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 15.02.2023

version: 1

Revision: 15.02.2023

Trade name: **p-cymene**

(Contd. of page 6)

Important information on protection of health and environment, and on safety.

Auto-ignition temperature:

Not determined.

Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Molecular weight

134.22 g/mol

Oxidising properties:

Not determined.

Evaporation rate:

Not determined.

Information with regard to physical hazard classes:

Explosives

Void

Flammable gases

Void

Aerosols

Void

Oxidising gases

Void

Gases under pressure

Void

Flammable liquids

Flammable liquid and vapour.

Flammable solids

Void

Self-reactive substances and mixtures

Void

Pyrophoric liquids

Void

Pyrophoric solids

Void

Self-heating substances and mixtures

Void

Substances and mixtures, which emit flammable gases in contact with water

Void

Oxidising liquids

Void

Oxidising solids

Void

Organic peroxides

Void

Corrosive to metals

Void

Desensitised explosives

Void

SECTION 10: Stability and reactivity

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided:

Stable under constant-temperature (see 7.)

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: Strong oxidising agents.

10.6 Hazardous decomposition products: no data available

EU

(Contd. on page 8)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 15.02.2023

version: 1

Revision: 15.02.2023

Trade name: **p-cymene**

(Contd. of page 7)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Toxic if inhaled.

LD/LC50 values relevant for classification:

Oral	LD50	4,750 mg/kg (rat)
		[RTECS]

Dermal	LD50	>5,000 mg/kg (rabbit)
		[RTECS]

Inhalative LC50/4 h 3 mg/l (ATE)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Suspected of damaging fertility.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: May be fatal if swallowed and enters airways.

Additional toxicological information:

The product should be handled with the care usual when dealing with chemicals.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):

Repr. 2

11.2 Information on other hazards

Endocrine disrupting properties: Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential:

Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties:

The product does not contain substances with endocrine disrupting properties.

(Contd. on page 9)



Safety data sheet

according to 1907/2006/EC, Article 31

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version: 1

Revision: 15.02.2023

Trade name: **p-cymene**

(Contd. of page 8)

12.7 Other adverse effects:

Remark:

Do not release into sewage, water or soil.

Toxic for fish

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Recommendation:

Dispose product and packaging in accordance with regional environmental laws.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number:

ADR, IMDG, IATA

UN2046

14.2 UN proper shipping name:

ADR

UN2046 CYMENES

IMDG

CYMENES, MARINE POLLUTANT

IATA

CYMENES

14.3 Transport hazard class(es):

ADR, IMDG



Class

3 Flammable liquids.

Label

3

(Contd. on page 10)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 15.02.2023

version: 1

Revision: 15.02.2023

Trade name: **p-cymene**

(Contd. of page 9)

IATA



Class	3 Flammable liquids.
Label	3
14.4 Packing group:	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Environmentally hazardous substance, liquid; Marine Pollutant
Marine pollutant:	Yes (PP) Yes
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user:	Symbol (fish and tree)
Hazard identification number (Kemler code):	Warning: Flammable liquids.
EMS Number:	30
Stowage Category	F-E,S-D
14.7 Maritime transport in bulk according to IMO instruments:	A
Transport/Additional information:	Not applicable.
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 2046 CYMENES, 3, III, ENVIRONMENTALLY HAZARDOUS

EU

(Contd. on page 11)



Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name: **p-cymene**

(Contd. of page 10)

SECTION 15: Regulatory information

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

Directive 2012/18/EU:

Named dangerous substances - ANNEX I: Substance is not listed.

Seveso category

H2 ACUTE TOXIC

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II:

Substance is not listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS: Substance is not listed.

National regulations:

Information about limitation of use:

When using chemicals, legal regulations have to be regarded (chemical law, maternity protection, protection of minors).

Technical instructions (air):

Class Share in %

NK 100.0

Waterhazard class: Water hazard class 2 (Assessment by list): hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 12)

EU



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.02.2023

version: 1

Revision: 15.02.2023

Trade name: **p-cymene**

(Contd. of page 11)

IATA: International Air Transport Association

PP: Severe Marine Pollutant

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Repr. 2: Reproductive toxicity – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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