

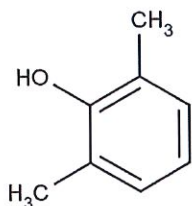
2,6-xyleneol

Substance identity

EC / List no.: 209-400-1

CAS no.: 576-26-1

Mol. formula: C₈H₁₀O



Hazard classification & labelling



Danger! According to the **harmonised classification and labelling (CLP00)** approved by the European Union, this substance is toxic if swallowed, is toxic in contact with skin, causes severe skin burns and eye damage and is toxic to aquatic life with long lasting effects.

Additionally, the classification provided by companies to ECHA in **REACH registrations** identifies that this substance causes serious eye damage and may cause respiratory irritation.

About this substance

This substance is manufactured and/or imported in the European Economic Area in 1 000 - 10 000 tonnes per year.

This substance is used at industrial sites and in manufacturing.

Consumer Uses

ECHA has no public registered data indicating whether or in which chemical products the substance might be used. ECHA has no public registered data on the routes by which this substance is most likely to be released to the environment.

Article service life

ECHA has no public registered data on the routes by which this substance is most likely to be released to the environment. ECHA has no public registered data indicating whether or into which articles the substance might have been processed.

Widespread uses by professional workers

ECHA has no public registered data indicating whether or in which chemical products the substance might be used. ECHA has no public registered data on the types of manufacture using this substance. ECHA has no public registered data on the routes by which this substance is most likely to be released to the environment.

Formulation or re-packing

ECHA has no public registered data indicating whether or in which chemical products the substance might be used. ECHA has no public registered data on the routes by which this substance is most likely to be released to the environment.

Uses at industrial sites

ECHA has no public registered data indicating whether or in which chemical products the substance might be used. ECHA has no public registered data on the types of manufacture using this substance. ECHA has no public registered data on the routes by which this substance is most likely to be released to the environment.

Manufacture

ECHA has no public registered data on the routes by which this substance is most likely to be released to the environment.

The InfoCard summarises the non-confidential data on substances as held in the databases of the European Chemicals Agency (ECHA), including data provided by third parties. The InfoCard is automatically generated. Information requirements under different legislative frameworks may therefore not be up-to-date or complete. Substance manufacturers and importers are responsible for consulting official publications. This InfoCard is covered by the ECHA Legal Disclaimer.



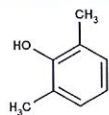
about INFOCARD - Last updated: 12/05/2017

2,6-xyleneol

Brief Profile - Last updated: 09/09/2017

Substance Description

Substance identity



EC / List name: 2,6-xyleneol

IUPAC name: 2,6-dimethylphenol

Other names

SMILES:

Cc1cccc(C)c1O

InChI:

InChI=1S/C8H10O/c1-6-4-3-5-7(2)8(6)9/i3-5,9H,1-2H3 AuxInfo=1/0/N:8,9,7,6,5,3,4,1,2/E:(1,2)(4,5)(6,7)/rA:9C0CCCCCCC/rB:s1;d+1;s1;d-4;s3;s5d-6;s3;s4/rC:2.6684,-1.5314,0;2.6684,0,0;4.0143,-2.3205,0;1.3459,-2.3205,0;1.3459,-3.8519,0;4.0143,-3.8519,0;2.6684,-4.6407,0;5.3368,-1.5547,0,0,-1.5547,0;

EC / List no.: 209-400-1

CAS no.: 576-26-1

Index number: 604-006-00-X

Molecular formula: C8H10O

Type of substance:

Mono constituent substance

Origin:

Organic

Registered compositions: 5

Of which contain:

0 impurities relevant for classification

0 additives relevant for classification

Substance Listed:

EINECS (European Inventory of Existing Commercial chemical Substances) List

Hazard classification & labelling



Danger! According to the harmonised classification and labelling (CLP00) approved by the European Union, this substance is toxic if swallowed, is toxic in contact with skin, causes severe skin burns and eye damage and is toxic to aquatic life with long lasting effects.

Additionally, the classification provided by companies to ECHA in REACH registrations identifies that this substance causes serious eye damage and may cause respiratory irritation.

Breakdown of all 1263 C&L notifications submitted to ECHA

| | | |
|-------------------|------|---|
| Acute Tox. 3 | H301 | ✓ |
| Acute Tox. 3 | H311 | ✓ |
| Aquatic Chronic 2 | H411 | ✓ |
| Skin Corr. 1B | H314 | ✓ |
| Eye Dam. 1 | H318 | |
| Skin Corr. 1C | H314 | |
| Acute Tox. 2 | H310 | |
| Aquatic Chronic 4 | H413 | |
| Aquatic Chronic 1 | H410 | |
| STOT SE 3 | H335 | |
| STOT SE 1 | H370 | |
| STOT RE 1 | H372 | |
| Aquatic Chronic 3 | H412 | |

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

✓ Harmonised Classification

REACH registration dossiers notifications

CLP notifications

Properties of concern

Regulatory activities

Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)

Registration

Pre-registration: Substance pre-registered under REACH.

Registration: This substance has 6 active registrations under REACH, 1 Joint Submission(s) and 2 Individual Submission(s).

Evaluation

Dossier Evaluation:

Substance Evaluation:

Authorisation

Candidate List:

Annex XIV (Authorisation List):

Restriction

Annex XVII (Restriction List):

Classification Labelling & Packaging (CLP)

Harmonised C&L:

A European Union Harmonised Classification & Labelling has been assigned to this substance.

Notification:

Classification & Labelling has been notified by industry to ECHA for this substance.

Biocidal Products Regulation (BPR)

Active Substance:

Biocidal Products:

Prior Informed Consent (PIC)

Annex I:

Annex V:

About this substance

General

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Consumer Uses

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ECHA has no public registered data on the routes by which this substance is most likely to be released to the environment.

Article service life

ECHA has no public registered data on the use of this substance in activities or processes at the workplace.

ECHA has no public registered data on the routes by which this substance is most likely to be released to the environment.

ECHA has no public registered data indicating whether or into which articles the substance might have been processed.

Widespread uses by professional workers

ECHA has no public registered data indicating whether or in which chemical products the substance might be used.

ECHA has no public registered data on the types of manufacture using this substance.

ECHA has no public registered data on the use of this substance in activities or processes at the workplace.

ECHA has no public registered data on the routes by which this substance is most likely to be released to the environment.

Formulation or re-packing

ECHA has no public registered data indicating whether or in which chemical products the substance might be used.

ECHA has no public registered data on the use of this substance in activities or processes at the workplace.

ECHA has no public registered data on the routes by which this substance is most likely to be released to the environment.

Uses at industrial sites

This substance has an industrial use resulting in manufacture of another substance (use of intermediates).

This substance is used for the manufacture of: chemicals and plastic products.

This substance is used in the following activities or processes at workplace: closed processes with no likelihood of exposure, closed, continuous processes with occasional controlled exposure, transfer of chemicals at dedicated facilities, closed batch processing in synthesis or formulation, laboratory work and transfer of substance into small containers.

Release to the environment of this substance can occur from industrial use: as an intermediate step in further manufacturing of another substance (use of intermediates) and for thermoplastic manufacture.

Manufacture

This substance is used in the following activities or processes at workplace: closed processes with no likelihood of exposure, closed, continuous processes with occasional controlled exposure, closed batch processing in synthesis or formulation and transfer of chemicals at dedicated facilities.

Release to the environment of this substance can occur from industrial use: manufacturing of the substance.

Precautionary Measures and safe use

Precautions for using this substance have been recommended by its registrants under REACH, as follows:

Prevention statements

When handling this substance: do not breathe the dust, fume, gas, mist, vapours or spray; do not eat, drink or smoke when using this product; avoid release to the environment; wash parts of the body (as specified by manufacturer/supplier) in contact with substance thoroughly after handling; wear protective gloves and/or clothing, and eye and/or face protection as specified by manufacturer/supplier.

Response statements

In case of incident: Wash contaminated clothing before reuse. Call a poison center or doctor/physician if you feel unwell. Follow specific measures (see label). If swallowed: Immediately call a poison center or doctor/physician. If on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water or shower. If inhaled: remove victim to fresh air and keep at rest in a position comfortable for breathing. Collect spillage. If swallowed: rinse mouth. Do not induce vomiting. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a poison center or doctor/physician. Rinse the mouth. Remove/take off immediately all contaminated clothing. If on skin: wash with soap and water. Follow specific treatment (see label).

Storage statements

Store this substance locked up.

Disposal statements

The substance must be disposed in accordance with local/regional/national/international regulation.

Guidance on the safe use of the substance provided by manufacturers and Importers of this substance.

Registrants/suppliers

Active

- BASF SE, Carl-Bosch-Str. 38 67056 Ludwigshafen am Rhein Rheinland-Pfalz Germany
- Charles River Laboratories Den Bosch B.V. OR26, Hambakenwetering 7 5231DD 's-Hertogenbosch Netherlands
- REACH24H CONSULTING GROUP, Suite 1E, Paramount Court, Corrig Road, Sandyford Dublin 18 Dublin Ireland
- SABIC Innovative Plastics BV, Plasticslaan 1 4612 PX Bergen op Zoom Netherlands Netherlands
- SI Group-Béthune S.A.S., 1111 Avenue George Washington Boite Postale 237 62404 Cedex Béthune France
- SI Group-UK, Ltd., Four Ashes WV 10 7BT Wolverhampton United Kingdom

Inactive

| Partition coefficient | | Type of Study provided | | Summaries | |
|---|--|---|--|--|--------------------------------|
| Study results | 3 studies submitted 2 studies processed | | | 0 summaries submitted 0 summaries processed | |
| <div>R</div> Log Pow 2.32 - 2.36 [2] | | Studies with data Weight of evidence | <div>⚠</div> <div>📄</div> <div>📊</div> <div>⚠</div> 3 | Data waiving no waivers | <div>⚠</div> No data available |

| Water solubility | | Type of Study provided | | Summaries | |
|--|--|---|---|--|--------------------------------|
| Study results | 3 studies submitted 3 studies processed | | | 0 summaries submitted 0 summaries processed | |
| <div>R</div> Water solubility (mass/vol.) 5.296 - 6.231 g/L @ 25 °C [3] | | Studies with data Weight of evidence | <div>⚠</div> <div>📄</div> <div>📊</div> <div>⚠</div> 2 1 | Data waiving no waivers | <div>⚠</div> No data available |

| Solubility in organic solvents / fat solubility | |
|---|--|
| ⚠ Data not provided by the registrant | |

| Surface tension | | Type of Study provided | | Summaries | |
|--|--|---|--|--|--------------------------------|
| Study results | 1 study submitted 0 studies processed | | | 0 summaries submitted 0 summaries processed | |
| <div>⚠</div> No automatically processable data submitted | | Studies with data Weight of evidence | <div>⚠</div> <div>📄</div> <div>📊</div> <div>⚠</div> Sci. unjustified 1 | Data waiving Sci. unjustified | <div>⚠</div> No data available |

| Flash point | | Type of Study provided | | Summaries | |
|--|--|---|--|--|--------------------------------|
| Study results | 3 studies submitted 3 studies processed | | | 0 summaries submitted 0 summaries processed | |
| <div>R</div> Flash point 73 - 88 °C @ 101.325 kPa [3] | | Studies with data Weight of evidence | <div>⚠</div> <div>📄</div> <div>📊</div> <div>⚠</div> 3 | Data waiving no waivers | <div>⚠</div> No data available |

| Auto flammability | | Type of Study provided | | Summaries | |
|--|--|---------------------------------------|--|--|--------------------------------|
| Study results | 3 studies submitted 0 studies processed | | | 0 summaries submitted 0 summaries processed | |
| <div>⚠</div> No automatically processable data submitted | | Studies with data Supporting study | <div>⚠</div> <div>📄</div> <div>📊</div> <div>⚠</div> 2 | Data waiving Sci. unjustified | <div>⚠</div> No data available |

| Flammability | | Type of Study provided | | Summaries | |
|--|--|---------------------------------------|---|--|--------------------------------|
| Study results | 3 studies submitted 0 studies processed | | | 0 summaries submitted 0 summaries processed | |
| <div>⚠</div> No automatically processable data submitted | | Studies with data Supporting study | <div>⚠</div> <div>📄</div> <div>📊</div> <div>⚠</div> 1 1 | Data waiving Sci. unjustified | <div>⚠</div> No data available |

| Explosiveness | | Type of Study provided | | Summaries | |
|--|--|---|--|--|--------------------------------|
| Study results | 1 study submitted 0 studies processed | | | 0 summaries submitted 0 summaries processed | |
| <div>⚠</div> No automatically processable data submitted | | Studies with data Weight of evidence | <div>⚠</div> <div>📄</div> <div>📊</div> <div>⚠</div> 1 | Data waiving Other | <div>⚠</div> No data available |

| Oxidising | | Type of Study provided | | Summaries | |
|--|--|---|--|--|--------------------------------|
| Study results | 1 study submitted 0 studies processed | | | 0 summaries submitted 0 summaries processed | |
| <div>⚠</div> No automatically processable data submitted | | Studies with data Weight of evidence | <div>⚠</div> <div>📄</div> <div>📊</div> <div>⚠</div> 1 | Data waiving Other | <div>⚠</div> No data available |

| Oxidation reduction potential | |
|---------------------------------------|--|
| ⚠ Data not provided by the registrant | |

| pH | |
|---------------------------------------|--|
| ⚠ Data not provided by the registrant | |

| |
|--|
| Other names |
| <p>IUPAC names</p> <ul style="list-style-type: none"> - 1-Hydroxy-2,6-dimethylbenzene 2,6 Xylenol 2,6- XYLENOL 2,6-dimethyl phenol 2,6-Dimethylphenol 2,6-dimethylphenol (xilenol) 2,6-Xylenol DIMETHYL XYLENOL PHENOL, 2,6-DIMETHYL- <p>Regulatory processes names</p> <ul style="list-style-type: none"> 2,6-xylenol <p>Trade names</p> <ul style="list-style-type: none"> 1-Hydroxy-2,6-dimethylbenzene 2,6-Dimethylphenol 2,6-Xylenol (BCI) 2,6-XYLEON Phenol, 2,6-dimethyl- (9CI) <p>Other names</p> |

Scientific properties

Physical and chemical properties

This section provides physicochemical information compiled from all automatically processable data from REACH registration dossiers that is available to ECHA at the time of generation. The quality and correctness of the information remains the responsibility of the data submitter. The Agency thus cannot guarantee the correctness of the information displayed.

Appearance/physical state / colour

Study results

2 studies submitted

2 studies processed

Type of Study provided

Summaries

0 summaries submitted

0 summaries processed

C Physical state at 20°C and 1013 hPa

Solid (100%) [2]

Studies with data

▲

📄

📊

📈

Key study

1

1

Data waiving

no waivers

▲

No data available

C Form

Crystalline (50%), Other (50%) [2]

C Substance type

Organic (100%) [1]

| | | | | |
|---|--|--|---|--|
| Melting/freezing point | | | | |
| Study results | 6 studies submitted 4 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| <div><div>R</div>Melting / freezing point 45.56 - 48 °C [4]</div> | | <div><div>Studies with data</div><div><div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div><div><div><div></div></div></div></div><div>Weight of evidence</div><div>6</div></div></div> <div><div>Data waiving</div><div>no waivers</div></div> | <div><div>No data available</div></div> | |

| | | | | |
|---|--|------------------------|--|--|
| Boiling point | | | | |
| Study results | | Type of Study provided | | Summaries |
| 6 studies submitted 3 studies processed | | | | 0 summaries submitted 0 summaries processed |
| R Boiling point 201 - 203 °C @ 101.3 - 101.325 kPa [3] | | Data waiving | | |
| Studies with data | | no waivers | | |
| Weight of evidence | | No data available | | |

| | | | | |
|---|--|------------------------|--|--|
| Density | | | | |
| Study results | | Type of Study provided | | Summaries |
| 2 studies submitted 1 study processed | | | | 0 summaries submitted 0 summaries processed |
| R Relative density 1.02 - 1.03 @ 15 °C [1] | | | | |
| | | Data waiving | | |
| | | no waivers | | |
| | | No data available | | |

| | | | | |
|---|--|---|---|--|
| Vapour pressure | | | | |
| Study results | 4 studies submitted 4 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| <div><div>R</div><div>Vapour pressure</div><div>2.666 - 35.997 Pa @ 4.9 - 25 °C [5]</div></div> | | <div><div>Studies with data</div><div><div><div><div>▲</div><div>📄</div><div>📊</div><div>📈</div></div></div><div><div>Weight of evidence</div><div>2</div></div><div><div>2</div></div></div></div> <div><div>Data waiving</div><div>no waivers</div></div> | <div><div>▲</div><div>No data available</div></div> | |

| Dissociation constant | | | | |
|--|--|------------------------|--------------|--|
| Study results | 2 studies submitted 2 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| C Dissociating properties Yes (100%) [2] | | Studies with data | Data waiving | No data available |
| R Dissociation constant 10.598 - 10.684 @ 20 - 25 °C [3] | | Key study | no waivers | |

| Viscosity | | | | |
|---|--|------------------------|--------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data | Data waiving | No data available |
| | | | Not feasible | |

Environmental fate and pathways

This section provides environmental fate and pathways information compiled from all automatically processable data from REACH registration dossiers that is available to ECHA at the time of generation. The quality and correctness of the information remains the responsibility of the data submitter. The Agency thus cannot guarantee the correctness of the information displayed.

| Phototransformation in air | | | | |
|---|--|------------------------|--------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data | Data waiving | No data available |
| | | Supporting study | no waivers | |

| Hydrolysis | | | | |
|--|--|------------------------|------------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| Study data not processed for brief profile | | Studies with data | Data waiving | No data available |
| | | | Sci. unjustified | |

| Phototransformation in water | | | | |
|---|--|------------------------|--------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data | Data waiving | No data available |
| | | Key study | no waivers | |

| | | | | |
|-----------------------------|-------------------------------------|--|--|--|
| Phototransformation in soil | Data not provided by the registrant | | | |
|-----------------------------|-------------------------------------|--|--|--|

| Biodegradation in water - screening tests | | | | |
|---|--|------------------------|--------------|--|
| Study results | 6 studies submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data | Data waiving | No data available |
| | | Supporting study | no waivers | |
| | | Weight of evidence | | |

| | | | | |
|---|-------------------------------------|--|--|--|
| Biodegradation in water & sediment - simulation tests | Data not provided by the registrant | | | |
|---|-------------------------------------|--|--|--|

| Biodegradation in soil | | | | |
|--|--|------------------------|------------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| Study data not processed for brief profile | | Studies with data | Data waiving | No data available |
| | | | Sci. unjustified | |

| Bioaccumulation: aquatic / sediment | | | | |
|--|--|------------------------|------------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| Study data not processed for brief profile | | Studies with data | Data waiving | No data available |
| | | | Sci. unjustified | |

Adsorption/desorption

| | | | | |
|---|--|---------------------------------------|----------------------------------|--|
| Study results | 2 studies submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| ⚠ No automatically processable data submitted | | Studies with data Supporting study | Data waiving Sci. unjustified | ⚠ No data available |
| | | 1 | 1 | |

Henry's law constant (H)

| | | | | |
|--|--|--------------------------------|----------------------------|--|
| Study results | 3 studies submitted 2 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| R H - (pressure) m³/mol 0.473 - 0.77 Pa m³/mol @ 25 °C and 101.325 kPa [3] | | Studies with data Key study | Data waiving no waivers | ⚠ No data available |
| | | 2 | 1 | |

Distribution modelling

⚠ Data not provided by the registrant

Ecotoxicological information

This section provides ecotoxicological information compiled from all automatically processable data from REACH registration dossiers that is available to ECHA at the time of generation. The quality and correctness of the information remains the responsibility of the data submitter. The Agency thus cannot guarantee the correctness of the information displayed.

Predicted No-Effect Concentration (PNEC)

| | |
|--|--|
| R Summaries | 1 summary submitted 1 summary processed |
| <p>The Predicted No-Effect Concentration (PNEC) value is the concentration of a substance below which adverse effects in the environment are not expected to occur. Please note that when more than one summary is provided, PNEC values may refer to constituents of the substance and not to the substance as a whole. More detailed information is available in the dossiers.</p> | |
| Hazard for Aquatic Organisms | |
| Freshwater | 10.8 µg/L (1) |
| Intermittent releases (freshwater) | 110 µg/L (1) |
| Marine water | 1.08 µg/L (1) |
| Intermittent releases (marine water) | - |
| Sewage treatment plant (STP) | - |
| Sediment (freshwater) | 216 µg/kg sediment dw (1) |
| Sediment (marine water) | 21.6 µg/kg sediment dw (1) |
| Hazard for Air | |
| Air | - |
| Hazard for Terrestrial Organism | |
| Soil | 37.1 µg/kg soil dw (1) |
| Hazard for Predators | |
| Secondary poisoning | No potential for bioaccumulation (1) |

Short-term toxicity to fish

| | | | | |
|--|--|--|----------------------------|--|
| Study results | 2 studies submitted 1 study processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| P/R Results LC50 (8 days) 23 mg/L [1] LC50 (4 days) 27 mg/L [1] LC50 (48 h) 6.7 mg/L [1] | | Studies with data Key study Supporting study | Data waiving no waivers | ⚠ No data available |
| | | 1 1 | | |

Long-term toxicity to fish

| | | | | |
|---|--|------------------------|----------------------------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| ⚠ No automatically processable data submitted | | Studies with data | Data waiving Sci. unjustified | ⚠ No data available |
| | | 1 | 1 | |

Short-term toxicity to aquatic invertebrates

| | | | | |
|---|--|---|----------------------------|--|
| Study results | 3 studies submitted 2 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| P/R Results EC50 (48 h) 11 mg/L [1] IC50 (24 h) 117 µmol/L [1] | | Studies with data Weight of evidence | Data waiving no waivers | ⚠ No data available |
| | | 3 | | |

| Long-term toxicity to aquatic invertebrates | | | | |
|--|--|----------------------------------|----------------------------|--|
| Study results | 1 study submitted 1 study processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| P/R Results NOEC (21 days) 540 µg/L [1] EC50 (21 days) 1.1 mg/L [1] | | Studies with data Key study 1 | Data waiving no waivers | No data available |

| Toxicity to aquatic algae and cyanobacteria | | | | |
|--|--|--|----------------------------|--|
| Study results | 2 studies submitted 1 study processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| P/R Results EC50 (72 h) 10 - 48 mg/L [4] NOEC (72 h) 2 - 4 mg/L [4] | | Studies with data Key study 1 Supporting study 1 | Data waiving no waivers | No data available |

| | | | | |
|---|--|--|-------------------------------------|--|
| Toxicity to aquatic plants other than algae | | | Data not provided by the registrant | |
|---|--|--|-------------------------------------|--|

| Toxicity to microorganisms | | | | |
|---|--|---|------------------------------------|--|
| Study results | 2 studies submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data Supporting study 1 | Data waiving Sci. unjustified 1 | No data available |

| Sediment toxicity | | | | |
|---|--|------------------------|------------------------------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data | Data waiving Sci. unjustified 1 | No data available |

| Toxicity to terrestrial macroorganisms except arthropods | | | | |
|--|--|------------------------|------------------------------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data | Data waiving Sci. unjustified 1 | No data available |

| Toxicity to terrestrial arthropods | | | | |
|---|--|------------------------|------------------------------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data | Data waiving Sci. unjustified 1 | No data available |

| Toxicity to terrestrial plants | | | | |
|---|--|------------------------|------------------------------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data | Data waiving Sci. unjustified 1 | No data available |

| Toxicity to soil microorganisms | | | | |
|---|--|------------------------|------------------------------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data | Data waiving Sci. unjustified 1 | No data available |

| Toxicity to birds | | | | |
|---|--|------------------------|------------------------------------|--|
| Study results | 1 study submitted 0 studies processed | Type of Study provided | Summaries | 0 summaries submitted 0 summaries processed |
| No automatically processable data submitted | | Studies with data | Data waiving Sci. unjustified 1 | No data available |

Toxicological information

This section provides toxicological information compiled from all automatically processable data from REACH registration dossiers that is available to ECHA at the time of generation. The quality and correctness of the information remains the responsibility of the data submitter. The Agency thus cannot guarantee the correctness of the information displayed.

Derived No- or Minimal Effect Level (DN(M)EL)

M/C Summaries

1 summary submitted
1 summary processed

The derived no- or minimum effect level (DN(M)EL) is the level of exposure above which a human should not be exposed to a substance. Please note that when more than one summary is provided, DN(M)EL values may refer to constituents of the substance and not to the substance as a whole. More detailed information is available in the dossiers.

Data for WORKERS

| INHALATION Exposure | Threshold | Most sensitive study |
|------------------------------------|------------------------------------|--------------------------------|
| Long-term: | (DNEL) 2 mg/m ³ | repeated dose toxicity |
| Acute /short term: | (DNEL) 6 mg/m ³ | repeated dose toxicity |
| Long-term: | (DNEL) 2 mg/m ³ | irritation (respiratory tract) |
| Acute /short term: | (DNEL) 16 mg/m ³ | irritation (respiratory tract) |
| DERMAL Exposure | Threshold | Most sensitive study |
| Long-term: | (DNEL) 200 µg/kg bw/day | repeated dose toxicity |
| Acute /short term: | (DNEL) 600 µg/kg bw/day | repeated dose toxicity |
| Long-term: | High hazard (no threshold derived) | |
| Acute /short term: | High hazard (no threshold derived) | |
| EYE Exposure | | |
| High hazard (no threshold derived) | | |

Data for the GENERAL POPULATION

| INHALATION Exposure | Threshold | Most sensitive study |
|----------------------|----------------------|----------------------|
| Long-term: | No hazard identified | |
| Acute /short term: | No hazard identified | |
| Long-term: | No hazard identified | |
| Acute /short term: | No hazard identified | |
| DERMAL Exposure | Threshold | Most sensitive study |
| Long-term: | No hazard identified | |
| Acute /short term: | No hazard identified | |
| Long-term: | No hazard identified | |
| Acute /short term: | No hazard identified | |
| ORAL Exposure | Threshold | Most sensitive study |
| Long-term: | No hazard identified | |
| Acute /short term: | No hazard identified | |
| EYE Exposure | | |
| No hazard identified | | |

Toxicokinetics, metabolism, and distribution

| Study results | Type of Study provided | Summaries |
|--|--|--|
| Study data: basic toxicokinetics | 1 study submitted 0 studies processed | 0 summaries submitted 0 summaries processed |
| ⚠ Study data not processed for brief profile | Study data: basic toxicokinetics | ⚠ No data available |
| | Studies with data | Data waiving |
| | Key study | no waivers |
| | | 1 |
| Study data: dermal absorption | 0 studies submitted 0 studies processed | |
| ⚠ Study data not processed for brief profile | Study data: dermal absorption | |
| | Studies with data | Data waiving |
| | | no waivers |

| Acute toxicity | | Summaries | |
|--|--|--|--|
| Study results | Type of Study provided | 0 summaries submitted 0 summaries processed | |
| oral 2 studies submitted 1 study processed P/R Results LD50 1 470 mg/kg bw (rat) [1] M/C Interpretations of results Toxicity Category IV [1] | oral Studies with data: 1 Key study: 1 Supporting study: 1 Data waiving: no waivers | No data available | |
| inhalation 1 study submitted 0 studies processed No automatically processable data submitted | inhalation Studies with data: 1 Supporting study: 1 Data waiving: Sci. unjustified 1 | | |
| dermal 2 studies submitted 0 studies processed No automatically processable data submitted | dermal Studies with data: 1 Supporting study: 1 Data waiving: Sci. unjustified 1 | | |
| other routes 0 studies submitted 0 studies processed No data available | other routes Studies with data: 1 Data waiving: no waivers | | |

| Irritation / corrosion | | Summaries | |
|--|---|--|--|
| Study results | Type of Study provided | 0 summaries submitted 0 summaries processed | |
| Study data: skin 1 study submitted 0 studies processed Study data not processed for brief profile | Study data: skin Studies with data: 1 Key study: 1 Data waiving: no waivers | No data available | |
| Study data: eye 1 study submitted 0 studies processed Study data not processed for brief profile | Study data: eye Studies with data: 1 Key study: 1 Data waiving: no waivers | | |

| Sensitisation | | Summaries | |
|---|---|--|--|
| Study results | Type of Study provided | 0 summaries submitted 0 summaries processed | |
| Study data: skin 1 study submitted 0 studies processed Study data not processed for brief profile | Study data: skin Studies with data: 1 Key study: 1 Data waiving: no waivers | No data available | |
| Study data: respiratory 0 studies submitted 0 studies processed Study data not processed for brief profile | Study data: respiratory Studies with data: 1 Data waiving: no waivers | | |

Repeated dose toxicity

Study results

Study data: oral 5 studies submitted
1 study processed

P/R Results

NOAEL (rat): 200 mg/kg bw/day [1]

Type of Study provided

Study data: oral

Summaries

0 summaries submitted
0 summaries processed

⚠ No data available

| Studies with data | ⚠ | 📄 | 📊 | 📈 | Data waiving |
|-------------------|---|---|---|---|--------------------|
| Key study | | | | 1 | Sci. unjustified 1 |
| Supporting study | 3 | | | | |

Study data: inhalation

2 studies submitted
1 study processed

P/R Results

NOAEC (rat): 200 mg/m³ air [1]
LOEC (rat): 670 mg/m³ air [1]

Study data: inhalation

| Studies with data | ⚠ | 📄 | 📊 | 📈 | Data waiving |
|-------------------|---|---|---|---|--------------------|
| Key study | 1 | | | | Sci. unjustified 1 |

Study data: dermal

1 study submitted
0 studies processed

⚠ No automatically processable data submitted

Study data: dermal

| Studies with data | ⚠ | 📄 | 📊 | 📈 | Data waiving |
|-------------------|---|---|---|---|--------------------|
| | | | | | Sci. unjustified 1 |

Genetic toxicity

Study results

Study data: in vitro 2 studies submitted
0 studies processed

⚠ Study data not processed for brief profile

Type of Study provided

Study data: in vitro

Summaries

0 summaries submitted
0 summaries processed

⚠ No data available

| Studies with data | ⚠ | 📄 | 📊 | 📈 | Data waiving |
|-------------------|---|---|---|---|--------------|
| Key study | 3 | | | | no waivers |

Study data: in vivo

2 studies submitted
0 studies processed

⚠ Study data not processed for brief profile

Study data: in vivo

| Studies with data | ⚠ | 📄 | 📊 | 📈 | Data waiving |
|-------------------|---|---|---|---|--------------|
| Key study | 1 | | | 1 | no waivers |

Carcinogenicity

Study results

2 studies submitted
0 studies processed

⚠ Study data not processed for brief profile

Type of Study provided

| Studies with data | ⚠ | 📄 | 📊 | 📈 | Data waiving |
|-------------------|---|---|---|---|--------------|
| Supporting study | 1 | | | | |

Other 1

Summaries

0 summaries submitted
0 summaries processed

⚠ No data available

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| | |
|----------------|---------------------------------------|
| Neurotoxicity | ⚠ Data not provided by the registrant |
| Immunotoxicity | ⚠ Data not provided by the registrant |

| | |
|------------|--|
| C | Concatenated distinct values |
| R | Range of values |
| P/R | Prioritisation (Eco)Toxicology AND Range of values |
| M/C | Most Conservative of values |

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