

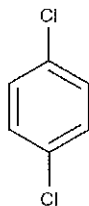
## 1,4-dichlorobenzene

### Substance identity

EC / List no.: 203-400-5

CAS no.: 106-46-7

Mol. formula: C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>



### Hazard classification & labelling



**Warning!** According to the **harmonised classification and labelling** (CLP00) approved by the European Union, this substance is very toxic to aquatic life, is very toxic to aquatic life with long lasting effects, causes serious eye irritation and is suspected of causing cancer.



### Regulatory activities

Some uses of this substance are restricted under Annex XVII of REACH.

### About this substance

This substance is manufactured and/or imported in the European Economic Area in 10 000 - 100 000 tonnes per year.

This substance is used by consumers, in articles, by professional workers (widespread uses), in formulation or re-packing, 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

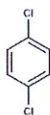


## 1,4-dichlorobenzene

Brief Profile - Last updated: 18/12/2017

### Substance Description

#### Substance Identity



EC / List name: 1,4-dichlorobenzene

IUPAC name: 1,4-dichlorobenzene

Other names

SMILES:

ClC1=CC=C(Cl)C=C1

InChI:

InChI=1S/C6H4Cl2/c7-5-1-2-6(8)4-3-5/h1-4H  
AuxInfo=1/0/N:2,3,6,5,1,4,7,8/E:(1,2,3,4)(5,6)  
(7,8)/A:8CCCCC(Cl)/rB:d-1;s2;d-3;s4;s1d-  
5;s1;s4;/C:2.294,-1.3245,0,3.11,-2.6332,0,2.294,-3.94  
17,0;7946,-3.9417,0,0,-2.6224,0;7946,-1.3034,0,3.046  
3,0,0,0,265,-5.2884,0;

EC / List no.: 203-400-5

CAS no.: 106-46-7

Index number: 602-035-00-2

Molecular formula: C6H4Cl2

Type of substance:

Mono constituent substance

Origin:

Organic

Registered compositions: 6

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



**Warning!** According to the harmonised classification and labelling (CLP00) approved by the European Union, this substance is very toxic to aquatic life, is very toxic to aquatic life with long lasting effects, causes serious eye irritation and is suspected of causing cancer.



#### Breakdown of all 291 C&L notifications submitted to ECHA

Aquatic Chronic 1 H410 ✓

Eye Irrit. 2 H319 ✓

Carc. 2 H351 ✓

Aquatic Acute 1 H400 ✓

Acute Tox. 3 H331

Acute Tox. 4 H302

Acute Tox. 4 H312

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

✓ Harmonised Classification

REACH registration dossiers notifications

CLP notifications

At least one notifier has indicated that an impurity or an additive present in the substance impacts the notified classification.

#### Properties of concern

#### Regulatory activities

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

###### Registration

**Pre-registration:** Substance pre-registered under REACH.

**Registration:** This substance has 10 active registrations under REACH, 1 Joint Submission(s) and 0 Individual Submission(s).

###### Evaluation

**Dossier Evaluation:**

**Substance Evaluation:**

###### Authorisation

**Candidate List:**

**Annex XIV (Candidate List):**

1

###### Restriction

**Annex XVII (Restriction List):** Some uses of this substance are restricted under Annex XVII of REACH.

##### 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

This substance is manufactured and/or imported in the European Economic Area in 10 000 - 100 000 tonnes per year.

This substance is used by consumers, in articles, by professional workers (widespread uses), in formulation or re-packing, at industrial sites and in manufacturing.

### Consumer Uses

This substance is used in the following products: polymers and air care products.

Other release to the environment of this substance is likely to occur from: indoor use in long-life materials with low release rate (e.g. flooring, furniture, toys, construction materials, curtains, foot-wear, leather products, paper and cardboard products, electronic equipment) and indoor use as processing aid.

### Article service life

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

Other release to the environment of this substance is likely to occur from: indoor use in long-life materials with low release rate (e.g. flooring, furniture, toys, construction materials, curtains, foot-wear, leather products, paper and cardboard products, electronic equipment).

This substance can be found in complex articles, with no release intended: vehicles, machinery, mechanical appliances and electrical/electronic products (e.g. computers, cameras, lamps, refrigerators, washing machines) and electrical batteries and accumulators. This substance can be found in products with material based on: plastic (e.g. food packaging and storage, toys, mobile phones).

### Widespread uses by professional workers

This substance is used in the following products: air care products and laboratory chemicals.

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

This substance is used in the following activities or processes at workplace: non-industrial spraying and laboratory work.

Other release to the environment of this substance is likely to occur from: indoor use as processing aid and indoor use in close systems with minimal release (e.g. cooling liquids in refrigerators, oil-based electric heaters).

### Formulation or re-packing

This substance is used in the following products: air care products.

This substance is used in the following activities or processes at workplace: production of mixtures or articles by tableting, compression, extrusion or pelletisation.

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

### Uses at industrial sites

This substance is used in the following products: fillers, putties, plasters, modelling clay, metal surface treatment products, non-metal-surface treatment products, heat transfer fluids and polymers. This substance has an industrial use resulting in manufacture of another substance (use of intermediates).

This substance is used for the manufacture of: chemicals, mineral products (e.g. plasters, cement) and plastic products.

This substance is used in the following activities or processes at workplace: transfer of chemicals, transfer of substance into small containers, closed processes with no likelihood of exposure, closed batch processing in synthesis or formulation, closed, continuous processes with occasional controlled exposure, mixing in open batch processes, production of mixtures or articles by tableting, compression, extrusion or pelletisation, potentially closed industrial processing with minerals/metals at elevated temperature (e.g. smelters, furnaces, refineries, coke ovens) and heat / pressure transfer fluids in closed systems.

Release to the environment of this substance can occur from industrial use: for thermoplastic manufacture, as an intermediate step in further manufacturing of another substance (use of intermediates), of substances in closed systems with minimal release and in processing aids at industrial sites.

### Manufacture

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

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

### Precautionary Measures and safe use

ECHA has no data from registration dossiers on the precautionary measures for using this substance. Guidance on the safe use of the substance provided by manufacturers and importers of this substance.

## Registrants/suppliers

### Active

- Celanese Europe BV, The New Atrium Strawinskylaan 3105 1077 ZX Amsterdam Netherlands
- DSM Engineering Plastics B.V., Urmonderbaan 22 6167RD Geleen Netherlands
- Envigo Consulting Limited, Woolley Road Alconbury PE28 4HS Huntingdon Cambridgeshire United Kingdom
- Envigo Consulting Limited, Woolley Road Alconbury PE28 4HS Huntingdon Cambridgeshire United Kingdom
- Envigo Consulting Limited, Woolley Road PE28 4HS Huntingdon United Kingdom
- Lanxess Deutschland GmbH, Kennedyplatz 1 50569 Köln Germany
- PCC Rokita SA, Sienkiewicza 4 56-120 Brzeg Dolny Poland
- Solvay Specialty Polymers Italy S.p.A., Viale Lombardia 20 20021 BOLLATE Italy
- TOSOH EUROPE B.V., Amstelplein 1 1096 HA Amsterdam Netherlands

### Inactive

## Other names

### IUPAC names

- 
- 1,4-dichlorobenzene
- 1,4-dichloro-benzene
- 1,4-Dichlorobenzene
- 1,4-diclorobenceno
- Benzene, 1,4-dichloro-
- p-Dichlorbenzol
- p-dichlorobenzene, PDB
- PDCB

### Regulatory processes names

- 1,4-Dichlorobenzene
- p-dichlorobenzene

### Trade names

- 1,4-DCB
- 1,4-DICHLOROBENZENE
- BENZENE, 1,4-DICHLORO-
- DI-CHLOROCIDE
- p-DCB
- P-DICHLOROBENZOL
- P-DICHLOROBENZENE
- PARADI
- PARADICHLOROBENZENE
- PARADOW
- PARAMOTH
- PDB
- SANTOCHLOR

Other names

## 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	3 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
<b>C</b> Physical state at 20°C and 1013 hPa Solid (100%) [1]		Studies with data	Data waiving  No data available	
<b>C</b> Form Crystalline (100%) [1]		Key study 1	no waivers	
<b>C</b> Substance type Organic (100%) [1]		Supporting study 2		

### Melting/freezing point

Study results	7 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
<b>R</b> Melting / freezing point 53.3 °C [1]		Studies with data	Data waiving  No data available	
		Key study 1	no waivers	
		Supporting study 6		

### Boiling point

Study results	7 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
<b>R</b> Boiling point 174.12 °C @ 101.3 kPa [1]		Studies with data	Data waiving  No data available	
		Key study 1	no waivers	
		Supporting study 6		

### Density

Study results	6 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
<b>R</b> Relative density 1.46 @ 20 °C [1]		Studies with data	Data waiving  No data available	
		Key study 1	no waivers	
		Supporting study 4		1



Vapour pressure				
Study results	8 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
<b>R</b> Vapour pressure 53 Pa @ 25 °C [1]		Studies with data Key study 1 Supporting study 6	Data waiving no waivers No data available	

Partition coefficient				
Study results	4 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
<b>R</b> Log Pow 3.37 @ 25 °C and pH 7 [1]		Studies with data Key study 1 Supporting study 3	Data waiving no waivers No data available	

Water solubility				
Study results	6 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
<b>R</b> Water solubility (mass/vol.) 51.2 - 82.9 mg/L @ 10 - 25 °C [2]		Studies with data Key study 1 Supporting study 4	Data waiving no waivers No data available	

Solubility in organic solvents / fat solubility	Data not provided by the registrant
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Surface tension				
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 Key study 1 Supporting study 4	Data waiving Sci. unjustified 1 No data available	

Flash point				
Study results	3 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
<b>R</b> Flash point 66 °C @ 101.3 kPa [1]		Studies with data Key study 1 Supporting study 2	Data waiving no waivers No data available	

Auto flammability				
Study results	1 study submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
<b>R</b> Autoflammability / self-ignition 500 °C [1]		Studies with data Key study 1	Data waiving no waivers No data available	

Flammability				
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 Not feasible 1 No data available	

Explosiveness				
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 Supporting study 1	Data waiving Sci. unjustified 1 No data available	

Oxidising				
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	<div> </div>	Data waiving Sci. unjustified 1
		⚠ No data available		

Oxidation reduction potential	⚠ Data not provided by the registrant
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pH	⚠ Data not provided by the registrant
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Dissociation constant				
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	<div> </div>	Data waiving Sci. unjustified 1
		⚠ No data available		

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	<div> </div>	Data waiving - Sci. unjustified 1
		⚠ No data available		

## 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	2 studies submitted 1 study processed	Type of Study provided		Summaries 0 summaries submitted 0 summaries processed
<b>R</b> Dissipation half life (DT50) 33 days [1]		Studies with data	<div> </div>	Data waiving no waivers
		Key study	1	⚠ No data available
		Weight of evidence	1	

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	<div> </div>	Data waiving Sci. unjustified 1
		⚠ No data available		

Phototransformation in water	⚠ Data not provided by the registrant
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Phototransformation in soil	⚠ Data not provided by the registrant
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Biodegradation in water - screening tests				
Study results	14 studies submitted 1 study processed	Type of Study provided		Summaries 0 summaries submitted 0 summaries processed
<b>C</b> Interpretation of results Readily biodegradable (100%) [1]		Studies with data	<div> </div>	Data waiving no waivers
		Key study	1	⚠ No data available
		Supporting study	11	
		Other	2	

Biodegradation in water & sediment - simulation tests	⚠ Data not provided by the registrant
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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	<div> </div>	Data waiving no waivers
		Key study	1	⚠ No data available

Bioaccumulation: aquatic / sediment				
Study results	10 studies 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	<div> <div>⚠</div> <div>📄</div> <div>📊</div> <div>📈</div> </div>	Data waiving no waivers
		Key study	1	⚠ No data available
		Supporting study	7	2

Bioaccumulation: terrestrial	⚠ Data not provided by the registrant
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Adsorption/desorption				
Study results	4 studies submitted 0 studies processed	Type of Study provided		Summaries 0 summaries submitted 0 summaries processed
⚠ No automatically processable data submitted		Studies with data	<div> <div>⚠</div> <div>📄</div> <div>📊</div> <div>📈</div> </div>	Data waiving no waivers
		Key study	1	⚠ No data available
		Supporting study	2	1

Henry's law constant (H)				
Study results	2 studies submitted 1 study processed	Type of Study provided		Summaries 0 summaries submitted 0 summaries processed
<div>R</div> H - (pressure) m³/mol 214.8 - 394.2 Pa m³/mol @ 10 - 30 °C and 101.325 kPa [5]		Studies with data	<div> <div>⚠</div> <div>📄</div> <div>📊</div> <div>📈</div> </div>	Data waiving no waivers
		Key study	1	⚠ No data available
		Supporting study	1	

Distribution modelling				
Study results	1 study submitted 1 study processed	Type of Study provided		⚠ No summary exists for this scientific endpoint
% Distribution in Media: <div>R</div> Air 95.94 % [1] <div>R</div> Water 2.95 % [1] <div>R</div> Soil 0.5 % [1] <div>R</div> Sediment 0.6 % [1]		Studies with data	<div> <div>⚠</div> <div>📄</div> <div>📊</div> <div>📈</div> </div>	Data waiving no waivers
		Key study	1	

## 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

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.

Hazard for Aquatic Organisms

Freshwater	20 µg/L (1)
Intermittent releases (freshwater)	7 µg/L (1)
Marine water	2 µg/L (1)
Intermittent releases (marine water)	-
Sewage treatment plant (STP)	8.6 mg/L (1)
Sediment (freshwater)	980 µg/kg sediment dw (1)
Sediment (marine water)	98 µg/kg sediment dw (1)

Hazard for Air

Air	-
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Hazard for Terrestrial Organism

Soil	108 µg/kg soil dw (1)
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Hazard for Predators

Secondary poisoning	10 mg/kg food (1)
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### Short-term toxicity to fish

#### Study results

11 studies submitted  
1 study processed

#### Type of Study provided

#### Summaries

0 summaries submitted  
0 summaries processed

#### P/R Results

LC50 (4 days) 1.12 mg/L [1]  
LC50 (72 h) 1.24 mg/L [1]  
LC50 (48 h) 1.24 mg/L [1]  
LC50 (24 h) 1.37 mg/L [1]

#### Studies with data

Key study 1

Supporting study 9

Other 1

#### Data waiving

no waivers

⚠ No data available

### Long-term toxicity to fish

#### Study results

3 studies submitted  
1 study processed

#### Type of Study provided

#### Summaries

0 summaries submitted  
0 summaries processed

#### P/R Results

NOEC (14 days) 200 - 230 µg/L [1]

#### Studies with data

Key study 1

Supporting study 2

#### Data waiving

no waivers

⚠ No data available

### Short-term toxicity to aquatic invertebrates

#### Study results

3 studies submitted  
1 study processed

#### Type of Study provided

#### Summaries

0 summaries submitted  
0 summaries processed

#### P/R Results

EC50 (48 h) 700 µg/L [1]  
LC50 (48 h) 2.2 mg/L [1]

#### Studies with data

Key study 1

Supporting study 1

Other 1

#### Data waiving

no waivers

⚠ No data available

### Long-term toxicity to aquatic invertebrates

#### Study results

2 studies submitted  
1 study processed

#### Type of Study provided

#### Summaries

0 summaries submitted  
0 summaries processed

#### P/R Results

NOEC (28 days) 220 µg/L [1]

#### Studies with data

Key study 1

Supporting study 1

#### Data waiving

no waivers

⚠ No data available

### Toxicity to aquatic algae and cyanobacteria

#### Study results

4 studies submitted  
1 study processed

#### Type of Study provided

#### Summaries

0 summaries submitted  
0 summaries processed

#### P/R Results

EC50 (4 days) 1.6 mg/L [1]  
EC0 (4 days) 570 µg/L [1]

#### Studies with data

Key study 1

Supporting study 3

#### 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

5 studies submitted  
1 study processed

#### Type of Study provided

#### Summaries

0 summaries submitted  
0 summaries processed

#### P/R Results

IC50 (48 h) 86 mg/L [1]  
IC50 (24 h) 86 mg/L [1]  
IC50 (12 h) 330 mg/L [1]

#### Studies with data

Key study 1

Supporting study 2

Other 2

#### Data waiving

no waivers

⚠ No data available

### Sediment toxicity

#### 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

Weight of evidence 1

#### Data waiving

Sci. unjustified 1

⚠ No data available

Toxicity to terrestrial macroorganisms except arthropods					
Study results	3 studies submitted 2 studies processed	Type of Study provided		Summaries	0 summaries submitted 0 summaries processed
<div>P/R</div> <div>Results</div> <div>LC50 (14 days) 96 - 258 mg/kg soil dw [4]</div>		Studies with data	<div> <div></div> <div></div> <div></div> <div></div> </div>	Data waiving	<div> <div>No data available</div> </div>
		Key study	2	Sci. unjustified	1

Toxicity to terrestrial arthropods					
Study results	1 study submitted 0 studies processed	Type of Study provided		Summaries	0 summaries submitted 0 summaries processed
<div>No automatically processable data submitted</div>		Studies with data	<div> <div></div> <div></div> <div></div> <div></div> </div>	Data waiving	<div> <div>No data available</div> </div>
				Other	1

Toxicity to terrestrial plants					
Study results	2 studies submitted 0 studies processed	Type of Study provided		Summaries	0 summaries submitted 0 summaries processed
<div>No automatically processable data submitted</div>		Studies with data	<div> <div></div> <div></div> <div></div> <div></div> </div>	Data waiving	<div> <div>No data available</div> </div>
		Key study	1	Sci. unjustified	1

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

Toxicity to birds					
Study results	1 study submitted 0 studies processed	Type of Study provided		Summaries	0 summaries submitted 0 summaries processed
<div>No automatically processable data submitted</div>		Studies with data	<div> <div></div> <div></div> <div></div> <div></div> </div>	Data waiving	<div> <div>No data available</div> </div>
				Exposure cons.	1

Toxicity to mammals					
					<div>No data provided by the registrant</div>

#### 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) 46.1 mg/m<sup>3</sup> repeated dose toxicity  
Acute /short term: (DNEL) 300 mg/m<sup>3</sup> acute toxicity

Long-term: -  
Acute /short term: -

DERMAL Exposure Threshold Most sensitive study

Long-term: (DNEL) 1.4 mg/kg bw/day repeated dose toxicity  
Acute /short term: -

Long-term: -  
Acute /short term: No hazard identified

### EYE Exposure

Low hazard (no threshold derived)

### Data for the GENERAL POPULATION

INHALATION Exposure Threshold Most sensitive study

Long-term: (DNEL) 8.2 mg/m<sup>3</sup> repeated dose toxicity  
Acute /short term: (DNEL) 300 mg/m<sup>3</sup> acute toxicity

Long-term: -  
Acute /short term: -

DERMAL Exposure Threshold Most sensitive study

Long-term: (DNEL) 700 µg/kg bw/day repeated dose toxicity  
Acute /short term: (DNEL) 3.5 mg/kg bw/day repeated dose toxicity

Long-term: -  
Acute /short term: No hazard identified

### ORAL Exposure Threshold Most sensitive study

Long-term: (DNEL) 700 µg/kg bw/day repeated dose toxicity  
Acute /short term: -

### EYE Exposure

Low hazard (no threshold derived)

## Toxicokinetics, metabolism, and distribution

Study results

Type of Study provided

Summaries

0 summaries submitted  
0 summaries processed

Study data not processed for brief profile

Study data: basic toxicokinetics

⚠ No data available

⚠ Study data not processed for brief profile

Studies with data: 6  
Other: 9

Data waiving  
no waivers

Study data not processed for brief profile

Study data: dermal absorption

⚠ Study data not processed for brief profile

Studies with data: 6  
Other: 9

Data waiving  
no waivers

## Acute toxicity

### Study results

oral 9 studies submitted  
1 study processed

#### P/R Results

LD50 2 000 mg/kg bw (rat) [1]  
LD0 2 000 mg/kg bw (rat) [1]

### Type of Study provided

oral

Summaries

0 summaries submitted  
0 summaries processed

⚠ No data available

Studies with data	⚠	📄	📊	📈	Data waiving
Key study	1				no waivers
Supporting study	1				
Other	7				

inhalation

3 studies submitted  
1 study processed

#### P/R Results

LC50 (4 h) 5.07 mg/L air (rat) [1]

inhalation

Studies with data	⚠	📄	📊	📈	Data waiving
Key study	1				no waivers
Other	2				

dermal

2 studies submitted  
1 study processed

#### P/R Results

LD50 2 000 mg/kg bw (rat) [1]  
LD0 2 000 mg/kg bw (rat) [1]

dermal

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

other routes

7 studies submitted  
0 studies processed

⚠ No automatically processable data submitted

other routes

Studies with data	⚠	📄	📊	📈	Data waiving
Other	7				no waivers

## Irritation / corrosion

### Study results

0 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

### Type of Study provided

Study data: skin

Summaries

0 summaries submitted  
0 summaries processed

⚠ No data available

Studies with data	⚠	📄	📊	📈	Data waiving
Key study	1				no waivers
Other	3				

Study data: eye





0 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

Study data: eye

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



Carcinogenicity				
Study results	10 studies 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 waivers	
Key study		3		
Supporting study				1
Other		6		
			⚠ No data available	

## Toxicity to reproduction

### Study results

Study data: not processed

3 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

### Type of Study provided

#### Study data: reproduction

Studies with data					Data waiving no waivers
Key study	1				
Supporting study	1				
Other	1				

### Summaries

0 summaries submitted

0 summaries processed

⚠ No data available

Study data: not processed

3 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

#### Study data: developmental

Studies with data					Data waiving no waivers
Key study	2				
Other	3				

Study data: not processed

0 studies submitted  
0 studies processed





⚠ Study data not processed for brief profile

#### Study data: other studies

Studies with data					Data waiving no waivers

Neurotoxicity

⚠ Data not provided by the registrant

Immunotoxicity				
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 waivers
		Other		1
				⚠ No data available

#### Legend

#### Type of study

- ⚠ Experimental results
- Read across based on grouping of substance (category approach) or Read-across from supporting substance (structural analogue or surrogate)
- Estimated by calculation or (Q)SAR
- Experimental study planned, other or unspecified

#### Type of aggregation

- 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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**Sensitisation**

Study results

0 studies submitted  
0 studies processed

Study data: skin

1 study submitted  
0 studies processed

Study data not processed for brief profile

Studies with data

Studies with data	Key study	Supporting study	Other
1	1	1	3

Data waiving

no waivers

Study data: respiratory

1 study submitted  
0 studies processed

Study data not processed for brief profile

Studies with data

Studies with data	Key study	Supporting study	Other
1	1	1	3

Data waiving

no waivers

**Repeated dose toxicity**

Study results

0 studies submitted  
0 studies processed

Study data: oral

23 studies submitted  
1 study processed

P/R Results

NOAEL (rat): 75 mg/kg bw/day [1]

Studies with data

Studies with data	Key study	Supporting study	Other
1	1	3	19

Data waiving

no waivers

Study data: inhalation

11 studies submitted  
2 studies processed

P/R Results

NOAEC (rat): 75 ppm [1]  
NOAEC (mouse): 75 ppm [1]

Studies with data

Studies with data	Key study	Supporting study	Other
2	2	9	

Data waiving

no waivers

Study data: dermal

1 study submitted  
0 studies processed

No automatically processable data submitted

Studies with data

Studies with data	Key study	Supporting study	Other
1	1		

Data waiving

no waivers

**Genetic toxicity**

Study results

0 studies submitted  
0 studies processed

Study data: in vitro

1 study submitted  
0 studies processed

Study data not processed for brief profile

Studies with data

Studies with data	Key study	Supporting study	Other
3	3	1	22

Data waiving

no waivers

Study data: in vivo

1 study submitted  
0 studies processed

Study data not processed for brief profile

Studies with data

Studies with data	Key study	Supporting study	Other
1	1	1	8

Data waiving

no waivers

## ANNEX XVII TO REACH – Conditions of restriction

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

<b>Entry 64</b>
1,4-dichlorobenzene  CAS No 106-46-7  EC No 203-400-5

<b>Conditions of restriction</b>
Shall not be placed on the market or used, as a substance or as a constituent of mixtures in a concentration equal to or greater than 1 % by weight, where the substance or the mixture is placed on the market for use or used as an air freshener or deodoriser in toilets, homes, offices or other indoor public areas.

NON APPLICABILE A POLIMERI

