

Ethylene

Substance identity

EC / List no.: 200-815-3

CAS no.: 74-85-1

Mol. formula: C₂H₄



Hazard classification & labelling



Danger! According to the harmonised classification and labelling (CLP00) approved by the European Union, this substance is an extremely flammable gas and may cause drowsiness or dizziness.

About this substance

This substance is manufactured and/or imported in the European Economic Area in 10 000 000+ 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: 18/12/2017

The Brief Profile summarizes the non-confidential data on substances as it is held in the databases of the European Chemicals Agency (ECHA), including data provided by third parties. The Brief Profile is automatically generated; note that it does not currently distinguish between harmonised classification and minimum classification; information requirements under different legislative frameworks may therefore not be fully up to date or complete. For accuracy reasons, substance manufacturers and importers have the responsibility to consult official sources, e.g. the electronic edition of the Official Journal of the European Union. This Brief Profile is covered by the ECHA Legal Notice.

Ethylene

Brief Profile - Last updated: 30/01/2018



Substance Description

Substance Identity	
<chem>H2C=CH2</chem>	<p>EC / List name: Ethylene</p> <p>IUPAC name: ethene</p> <p>Other names</p>
EC / List no.:	200-815-3
CAS no.:	74-85-1
Index number:	601-010-00-3
Molecular formula:	C2H4
SMILES:	C=C
InChI:	InChI=1S/C2H4/c1-2/h1-2H2 AuxInfo=1/0/N:1,2/E:(1,2)/A:2C0/rB:01/rC:1.54,0,0;
Type of substance:	Mono constituent substance
Origin:	Petroleum product
Registered compositions:	43
Of which contain:	6 Impurities relevant for classification
	0 additives relevant for classification
Substance Listed:	EINECS (European Inventory of Existing Commercial chemical Substances) List

Hazard classification & labelling																									
<p>Danger! According to the harmonised classification and labelling (CLP00) approved by the European Union, this substance is an extremely flammable gas and may cause drowsiness or dizziness.</p>	<p>Breakdown of all 3196 C&L notifications submitted to ECHA</p> <table border="1"> <tr> <td>Flam. Gas 1</td> <td>H220</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>STOT SE 3</td> <td>H336</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td colspan="4">Not Classified</td> </tr> <tr> <td>STOT SE 3</td> <td>H335</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>STOT SE 2</td> <td>H336</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Press. Gas</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table> <p>0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%</p> <p><input checked="" type="checkbox"/> Harmonised Classification</p> <p><input type="checkbox"/> REACH registration dossiers notifications</p> <p><input type="checkbox"/> CLP notifications</p>	Flam. Gas 1	H220	<input checked="" type="checkbox"/>	<input type="checkbox"/>	STOT SE 3	H336	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Classified				STOT SE 3	H335	<input type="checkbox"/>	<input type="checkbox"/>	STOT SE 2	H336	<input type="checkbox"/>	<input type="checkbox"/>	Press. Gas		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Flam. Gas 1	H220	<input checked="" type="checkbox"/>	<input type="checkbox"/>																						
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STOT SE 3	H335	<input type="checkbox"/>	<input type="checkbox"/>																						
STOT SE 2	H336	<input type="checkbox"/>	<input type="checkbox"/>																						
Press. Gas		<input checked="" type="checkbox"/>	<input type="checkbox"/>																						

Manufactured in the EU

Regulatory activities	
<p>Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)</p> <p>Registration</p> <p>Pre-registration: Substance pre-registered under REACH.</p> <p>Registration: This substance has 290 active registrations under REACH, 1 Joint Submission(s) and 0 individual Submission(s).</p> <p>Evaluation</p> <p>Dossier Evaluation: Registration dossiers submitted to ECHA for this substance have been evaluated under REACH.</p> <p>Substance Evaluation:</p> <p>Authorisation</p> <p>Annex XIV (Substances of Very High Concern):</p> <p>Restriction</p> <p>Annex XVII (Restrictions):</p>	<p>Classification Labelling & Packaging (CLP)</p> <p>Harmonised C&L: A European Union Harmonised Classification & Labelling has been assigned to this substance.</p> <p>Notification: Classification & Labelling has been notified by industry to ECHA for this substance.</p> <p>Biocidal Products Regulation (BPR)</p> <p>Active Substance:</p> <p>Biocidal Products:</p> <p>Prior Informed Consent (PIC)</p> <p>Annex I:</p> <p>Annex V:</p>

Registrants/suppliers

- Honeywell Belgium NV QR-1000, Gaston Geenslaan 14 - 2nd Floor Arenberg Wetenschapspark B-3001 Heverlee Belgium
- HP Indigo B.V., Startbaan 16 1187 XR Amstelveen Netherlands
- INEOS C2T nv, Nieuwe Weg 1 2070 Zwijndrecht Belgium
- INEOS Chemicals Grangemouth Ltd, PO Box 21 Bo'ness Road FK3 9XH Grangemouth Stirlingshire United Kingdom
- INEOS Chemicals Lavera (O Imports), Rue de la Bienfaisance 13117 Lavera France
- INEOS Manufacturing Deutschland GmbH, Alte Strasse 201 50769 Koeln Germany
- INEOS nv, Haven 1053 - Nieuwe Weg 1 2070 Zwijndrecht Belgium
- INEOS Services Belgium NV (OR), Rue de Ransbeek 310 1120 Bruxelles Belgium
- INEOS Styrolution Belgium, Haven 725, Scheldelaan 600 Scheldelaan 600 2040 Antwerpen 4 Belgium
- Infineum UK Ltd, PO Box 1 Milton Hill OX13 6BB Abingdon Oxon United Kingdom
- Infineum UK Ltd, PO Box 1 Milton Hill OX13 6BB Abingdon Oxfordshire United Kingdom
- INOVYN Belgium SA, rue de Ransbeek 310 1120 BRUSSELS Belgium
- INOVYN España S.L., Marie Curie 1-3-5 08760 MARTORELL Spain
- INOVYN Manufacturing Belgium SA, Rue de Ransbeek 310 1120 Brussels Belgium
- INOVYN OLEFINES-FRANCE S.A.S., RUE DE CLICHY 25 75009 PARIS France
- INTERTEK FRANCE, ZAC Ecoparc II 27400 HEUDEBOUVILLE France
- Intertek Semko Service, Box 1103 Torshamnsgatan 43 SE-16440 Kista Stockholm Sweden
- ITOCHU Deutschland GmbH, Am Seestern 18 40547 Duesseldorf Germany
- ITS Testing Services (UK) Ltd 2, Caleb Brett House 734 London Road RM20 3NL West Thurrock, Grays Essex United Kingdom
- Jowat SE, Ernst-Hilker-Str. 10 - 14 32758 Detmold NRW Germany
- Kuraray Europe GmbH, Philipp-Reis-Str. 4 65795 Hattersheim Germany
- Kuraray Europe GmbH (OR2), Philipp-Reis-Str. 4 65795 Hattersheim Germany
- Lanxess Deutschland GmbH, Kennedyplatz 1 50569 Köln Germany
- LANXESS Deutschland GmbH in its legal capacity as Only Representative of ARLANXEO High Performance Elastomers (Changzhou) Co. Ltd, Kennedyplatz1 50569 Cologne Germany
- LANXESS Deutschland GmbH in its legal capacity as Only Representative of ARLANXEO USA LLC, Kennedyplatz 1 50569 Köln Germany
- LG Chem Europe GmbH, Lyoner str 15, Alricom C6, D-60528 Frankfurt am Main Germany
- Lubrizol Advanced Materials Europe B.V.B.A., Nijverheidsstraat 30 2260 Westerlo-Davele Belgium
- Lubrizol Limited 01, The Knowle, Nether Lane Hazelywood DE56 4AN Derby Derbyshire United Kingdom
- Lubrizol Limited 07, The Knowle, Nether Lane DE56 4AN Derby Derbyshire United Kingdom
- LUKOIL Neftchim Burgas AD (LNN Moscow KNH), Western Industrial Zone 8104 Bourgas Bulgaria
- LUKOIL Neftchim Burgas AD (LNN Moscow Slav), Western Industrial Zone 8104 Bourgas Bulgaria
- Marubeni Europe plc, 95 Gresham Street EC2V 7AB London United Kingdom
- Michelman International Belgium SPRL OR, Zoning Industriel B-6790 Aubange Belgium
- Milliken Europe B.V.B.A., Ham 18-24 9000 Gent Belgium
- Mitsubishi International GmbH, Kennedydamm 19 40476 Düsseldorf NRW Germany
- Mitsui Chemicals Europe GmbH, Oststr. 34 40211 Dusseldorf Germany
- MOL Petrochemicals Private Company Limited by Shares, TVK Ipartelep, TVK Központi Irodaház (136. sz. épület, hrsz: 2119/3) 3581 Tiszaszajvaros Hungary
- Montachem International BV, Pompoenweg 9 2321DK Leiden Netherlands
- Muntajat B.V., 19th Floor, Tower E, WTC The Hague Prinses Margrietplantsoen 78-A 2595 The Hague Netherlands
- Muntajat B.V., 19th floor, Tower E, WTC The Hague Prinses Margrietplantsoen 78-A 2595 BR The Hague Netherlands
- Muntajat B.V., 19th Floor, Tower E, WTC The Hague Prinses Margrietplantsoen 78-A 2595 The Hague Netherlands
- Muntajat B.V., 19th Floor, Tower E, WTC The Hague Prinses Margrietplantsoen 78-A 2595BR The Hague Netherlands
- Nalco Limited, P.O. Box 11, Wincington Avenue, CW8 4DX Northwich, Cheshire United Kingdom
- Naphtachimie SA, Place de la Coupole, 2 La Défense 6 92400 Courbevoie France
- NetSun EU B.V., Blaak 40, Fifth Floor 3011 TA Rotterdam Netherlands
- Nexeo Solutions Plastics UK Ltd, 10 New St. EC2M 4TP London United Kingdom
- Nippon Gohsei (UK) Limited 2, Soarnof House Saltend HU12 8DS Hull East Yorkshire United Kingdom
- Noretyl AS, Rafines N-3966 Stathelle Norway
- OIL LOGISTIC LTD., Skanstes street 50 LV 1013 Riga Latvia
- OMV Deutschland GmbH, Haiminger Straße 1 D-84489 Burghausen Germany
- OMV Refining & Marketing GmbH, Trabrennstraße 6-B A-1020 Wien Austria
- Osterman B.V. Prins Hendriklaan 26 1075 BD Amsterdam Netherlands
- Oy Nizhex Scandinavia Ltd, Wavulinentie 10 00210 HELSINKI Finland
- Petrochemical Commercial Company (UK) Ltd, 24, GROSVENOR GARDENS SW1W 0DH LONDON EUROPE United Kingdom
- PETROCHINA INTERNATIONAL (LONDON) CO., LTD, 5 Wilton Road SW1V 1AN LONDON United Kingdom
- Phillips 66 Limited - OR, 7th Floor 200-202 Aldersgate Street EC1A 4HD London United Kingdom
- Polskij Koncern Naftowy ORLEN SA, ul. Chemiczów 7 09-411 Plock Poland
- POLYMER TEAM N.V., Transportstraat 6 3980 Tessenderlo Belgium
- Polytrade Global GmbH, Borsigallee 12 60388 Frankfurt am Main Hessen Germany
- Raffinerie Helde GmbH, Meidorfer Straße 43 25770 Hemmingstedt Germany
- Ravago Distribution SA, Rue de Meri 76-78 L-2146 Luxembourg Luxembourg
- REACH ChemAdvice GmbH, Am Marktplatz 5 65779 Kelheim Germany
- REACH COMPLIANCE SERVICES LIMITED, Suite 1E, Paramount Court, Corrig Road, Sandyford Dublin 18 Dublin Ireland
- REACH GLOBAL SERVICES S.A., Rond Point Schuman, 6 B-1040 Brussels Belgium
- REACH INTEGRA, S.L., C/ Tomás Alba Edison, 2 41092 Sevilla Spain
- REACH NATION 3, Avenue du Pesage 18, Box 9 1050 Brussels Belgium
- REACH24H CONSULTING GROUP, Suite 1E, Paramount Court, Corrig Road, Sandyford Dublin 18 Dublin Ireland
- REACH24H CONSULTING GROUP, Paramount Court, Corrig Road, Sandyford Dublin 18 Dublin Ireland
- REACH24H CONSULTING GROUP, Suite 1E, Paramount Court, Corrig Road, Sandyford, Dublin 18, Ireland Dublin 18 Dublin Ireland
- REACHLaw Ltd, Vänrikinkuja 3 JK 21 FI-02600 Espoo Finland
- REACHLaw Ltd, Vänrikinkuja 3 JK 21 02600 Espoo Finland
- REACHLaw Ltd., Vänrikinkuja 3 JK 21 02600 Espoo Finland
- Repsol Petroleo, S.A., Calle Mendez Alvaro, 44 28045 Madrid Madrid Spain
- REPSOL POLIMEROS S.A., Monte Felo 7520-954 Sines Portugal
- REPSOL QUÍMICA, Calle Mendez Alvaro, 44 28045 Madrid Madrid Spain
- Rohm and Haas Europe Trading ApS inactive, Sorgenfrivej 15 2800 Kongens Lyngby Denmark
- Ruhr Oel GmbH, Pawiker Strasse 30 45896 Gelsenkirchen Germany
- SABIC Innovative Plastics BV, Plasticlaan 1 4612 PX Bergen op Zoom Netherlands Netherlands
- SABIC Petrochemicals B.V., Europaboulevard 1 6135 LD Sittard Netherlands
- SABIC UK Petrochemicals Limited, Wilton Centre TS10 4RF Redcar Cleveland United Kingdom
- Sasol Chemie GmbH & Co. KG OR NA, Anckelmannsplatz 1 20537 Hamburg Germany
- Sasol Chemie GmbH & Co. KG OR RSA, Anckelmannsplatz 1 20537 Hamburg Germany
- Sasol Germany GmbH, Anckelmannsplatz 1 D-20537 Hamburg Germany
- SC Rompetrol Rafinare SA, Navodarî Street no.215, Administrative Building 905700 Navodarî Constanta Romania
- SCAS Europe S.A./N.V., Leonardo Da Vinciiaan 19 B-1831 Diegem Belgium
- Shell Chemicals Europe B.V., Weena 70 3012 CM Rotterdam Netherlands
- Shell Deutschland Oil GmbH, Suhrenkamp 71-77, 22335 Hamburg Germany
- Shell Nederland Chemie B.V., Vonderlingenweg 601, Aft. G-J Dijkema WO 503200019 PO BOX 8610, 3009 AP Rotterdam Netherlands
- SI Group-Béthune S.A.S., 1111 Avenue George Washington Boite Postale 237 62404 Cedex Béthune France
- Silberline Ltd, Banbeath Road KY8 5HD Levan Fife United Kingdom
- Sinopec Europa GmbH, Messe Turm, Friedrich-Ebert-Anlage 49 60308 Frankfurt am Main Germany
- SLOVNAFT, a.s., Vilec hrdlo 1 824 12 Bratislava Slovakia
- Solutia Europe SPRL/BVBA, Corporate Village - Aramis Building Leonardo Da Vinciiaan 1 1930 Zaventem Belgium
- SOLVAY IBERICA S.L., COMPLEJO INDUSTRIAL SOLVAY AVDA REY ALBERTO I DE BEGICA, S/N 39300 BARREDA-TORRELAVEGA CANTABRIA Spain
- Solvay SA, rue de Ransbeek 310 1120 BRUSSELS Belgium
- Solvay Specialty Polymers Italy S.p.A., Viale Lombardia 20 20021 BOLLATE Italy
- Specialized Technology Resources España, Parque Tecnológico de Asturias P.36 33428 Llanera Spain
- Steptoe & Johnson LLP, Av Louise, 489 1050 Brussels Belgium
- Sumitomo Deutschland GmbH, Georg-Glock-Str. 8 40474 Düsseldorf Germany
- Sun Chemical B.V., Leeuwenveldseweg 3-1 1382 LV Weesp Netherlands
- Sustainability Support Services (Europe) AB, Markaskälsvägen 6 22647 Lund Sweden
- Teknor Apex BV, Mijweg 1 Mijweg 1, (P.O.Box 601, 6160 AP) 6167AC Geleen Please select Netherlands
- TER HELL & Co. GmbH, Boersenbruecke 2 20457 Hamburg Germany
- TOSOH EUROPE B.V., Amstelvein 1 1096 HA Amsterdam Netherlands
- Total Olefins Antwerp, Scheldelaan 10 2030 Antwerpen Belgium
- Total Petrochemicals & Refining SA, Rue de l'Industrie, 52 1040 Bruxelles Belgium
- Total Petrochemicals Development Feluy SA, Zone Industrielle C 7181 Feluy Belgium
- Total Polymer Solutions Ltd, Unit 5 Block 613 Jordanstown Road, Greenogue Business Park Co Rathcoole Dublin Ireland
- TOTAL RAFFINADERIJ ANTWERPEN NV, SCHEDELAAN 16, 2030 Antwerpen Belgium
- Total Raffinage France, 2, place Jean Miller, La Défense 92400 Courbevoie France
- Total Research & Technology Feluy, Zone Industrielle C 7181 Feluy Belgium
- Total Research & Technology feluy, Zone Industrielle C 7181 Feluy Belgium
- Toyota Tsusho Europe S.A., Belgicastraat 13 1930 Zaventem Belgium
- TOYOTA TSUSHO UK Ltd, Pond End, Willow Farm Business Park DE74 2UB Castle Donnington Derbyshire United Kingdom
- Tyco Electronics Raychem GmbH, Finsinger Feld 1 85521 Ottonbrunn Bayern Germany
- TÜV SÜD Iberia S.A.U. (024), C/ Frederic Mompou 4A, 1º 4º 08960 Sant Just Desvern (BCN) Barcelona Spain
- TÜV SÜD Iberia S.A.U. (046), C/ Frederic Mompou 4A, 1º 4º 08960 Sant Just Desvern (BCN) Barcelona Spain
- Unicore Specialty Materials Brugge, Kleine Pathoekeweg 82 8000 Brugge Belgium
- Unipetrol RPA, Litvinov - Zaluži 1 43670 Litvinov Czech Republic
- Veolia Umweltservice PET Recycling GmbH, Dierkower Damm 29 18146 Rostock Germany
- Versalis France S.A.S., Route des Dunes 59279 Mardyck France
- versalis S.p.A., P.zza Boldrini 1 20097 San Donato Milanese MILANO Italy
- Vertellus Specialties UK Ltd, Seal Sands Road Seal Sands TS2 1UB Middlesbrough Cleveland United Kingdom
- Vink+Co. GmbH Handelsgesellschaft und Co KG, Eichenhoehe 24 21255 Kakenstorf Germany

Appearance/physical state / colour

Study results	2 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
[C] Physical state at 20°C and 1013 hPa Gaseous (100%) [1]		Studies with data: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Key study: 1 Supporting study: 1	Data waiving: <input type="checkbox"/> No data available no waivers	
[C] Odour Other (100%) [1]				
[C] Substance type Organic (100%) [1]				

Melting/freezing point

Study results	2 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
[R] Melting / freezing point -169.15 °C [1]		Studies with data: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Key study: 1 Supporting study: 1	Data waiving: <input type="checkbox"/> No data available no waivers	

Boiling point

Study results	2 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
[R] Boiling point -103.77 °C @ 101.3 kPa [1]		Studies with data: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Key study: 1 Supporting study: 1	Data waiving: <input type="checkbox"/> No data available no waivers	

Density

Study results	2 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
[R] Density 0.57 g/cm³ @ -104 °C [1]		Studies with data: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Key study: 1 Supporting study: 1	Data waiving: <input type="checkbox"/> No data available no waivers	

Vapour pressure

Study results	2 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
[R] Vapour pressure 212.4 kPa @ -90 °C [1]		Studies with data: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Key study: 1 Supporting study: 1	Data waiving: <input type="checkbox"/> No data available no waivers	

Partition coefficient

Study results	2 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
[R] Log Pow 1.13 @ 25 °C and pH 7 [1]		Studies with data: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Key study: 1 Supporting study: 1	Data waiving: <input type="checkbox"/> No data available no waivers	

Water solubility

Study results	2 studies submitted 1 study processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
[R] Water solubility (mass/vol.) 131 mg/L @ 25 °C and pH 7 [1]		Studies with data: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Key study: 1 Supporting study: 1	Data waiving: <input type="checkbox"/> No data available no waivers	

Solubility in organic solvents / fat solubility

Data not provided by the registrant

Hydrolysis				
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed	
1 study submitted 0 studies processed				
Δ Study data not processed for brief profile	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: <input type="checkbox"/> No data available	Sci. unjustified: 1	

Photolysis in water Δ Data not provided by the registrant

Phototransformation in soil Δ Data not provided by the registrant

Biodegradation in water - screening tests				
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed	
2 studies submitted 1 study processed				
(C) Interpretation of results Readily biodegradable (100%) (1)	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: <input type="checkbox"/> No data available no waivers	Weight of evidence: 1 Other: 1	

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

Biodegradation in soil				
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed	
1 study submitted 0 studies processed				
Δ Study data not processed for brief profile	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: <input type="checkbox"/> No data available Other: 1		

Bioaccumulation: aquatic / sediment				
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed	
1 study submitted 0 studies processed				
Δ Study data not processed for brief profile	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: <input type="checkbox"/> No data available Other: 1		

Bioaccumulation: terrestrial Δ Data not provided by the registrant

Adsorption/desorption				
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed	
1 study submitted 0 studies processed				
Δ No automatically processable data submitted	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: <input type="checkbox"/> No data available Other: 1		

Henry's law constant (H) Δ Data not provided by the registrant

Distribution modelling Δ 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) Δ No data available

Short-term toxicity to fish				
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed	
2 studies submitted 0 studies processed				
Δ No automatically processable data submitted	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: <input type="checkbox"/> No data available Other: 1	Supporting study: 1	

Long-term toxicity to fish				
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed	
2 studies submitted 0 studies processed				
Δ No automatically processable data submitted	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: <input type="checkbox"/> No data available Other: 1	Supporting study: 1	

Toxicity to birds				
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed	
1 study submitted 0 studies processed				
⚠ No automatically processable data submitted	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: <input type="checkbox"/> No data available Other: 1		
⚠ Data not provided by the registrant				

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)	
Summaries	1 summary submitted 0 summaries processed
⚠ No automatically processable data submitted	

Toxicokinetics, metabolism, and distribution				
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed	
	Study data: basic toxicokinetics		⚠ No data available	
⚠ Study data not processed for brief profile	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: no waivers Supporting study: 0 1		
	Study data: dermal absorption			
⚠ Study data not processed for brief profile	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: no waivers		

Acute toxicity				
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed	
oral	1 study submitted 0 studies processed		⚠ No data available	
⚠ No automatically processable data submitted	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: Not feasible Other: 1		
inhalation	2 studies submitted 1 study processed			
PAR Results LC50 (4 h) 65.4 mg/L air (rat) [1] LC50 (4 h) 57 000 ppm (rat) [1]	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: no waivers Key study: 1 Supporting study: 1		
M/C Interpretations of results Not classified [1]				
dermal	1 study submitted 0 studies processed			
⚠ No automatically processable data submitted	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: Not feasible Other: 1		
other routes	0 studies submitted 0 studies processed			
⚠ No data available	Studies with data: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Data waiving: no waivers		

Genetic toxicity																							
Study results	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed																				
	Study data: in vitro	No data available																					
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Carcinogenicity																	
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Toxicity to reproduction																							
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Neurotoxicity	Data not provided by the registrant			
Immunotoxicity	Data not provided by the registrant			
Endocrine disrupter mammalian screening - in vivo	Data not provided by the registrant			

Legend