

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 imports 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.

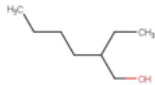
## 2-ethylhexan-1-ol

Brief Profile - Last updated: 22/01/2021



### Substance Description

#### Substance identity

	EC / List name:	SMILES:	CCCCC(CC)CO
	IUPAC name: 2-ethylhexan-1-ol	InChI:	InChI=1/C8H18O/c1-3-5-6-8(4-2)7-9/h8-9H,3-7H2,1-2H3
Substance names and other identifiers		Type of substance:	Mono constituent substance
		Origin:	Organic
		Registered compositions:	23
EC / List no.:		Of which contain:	0 impurities relevant for classification 0 additives relevant for classification
CAS no.:		Substance Listed:	EINECS (European Inventory of Existing Commercial chemical Substances) List
Index number:			
Molecular formula:			
203-234-3			
104-76-7			
C8H18O			

#### Hazard classification & labelling

**Warning!** According to the classification provided by companies to ECHA in **REACH registrations** this substance causes serious eye irritation, is harmful if inhaled, causes skin irritation and may cause respiratory irritation.



#### Breakdown of all 3743 C&L notifications submitted to ECHA

Eye Irrit. 2	H319	100%
Skin Irrit. 2	H315	100%
Acute Tox. 4	H332	100%
STOT SE 3	H335	100%
Eye Dam. 1	H319	100%
Acute Tox. 4	H312	100%
Aquatic Chronic 3	H412	100%
Not Classified		100%
STOT SE 3	H336	100%
Skin Sens. 1	H317	100%
Eye Dam. 1	H318	100%
Acute Tox. 4	H302	100%
Aquatic Chronic 2	H411	100%
Flam. Liq. 3	H226	100%
Aquatic Chronic 4	H413	100%

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

- ✓ Harmonised Classification
- REACH registration dossiers notifications
- CLP notifications

## Regulatory context

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

## Registration

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

**Registration:** This substance has 40 active registrations under REACH, 1 Joint Submission(s) and 1 Individual Submission(s).

## Evaluation

**Dossier Evaluation:** Registration dossiers submitted to ECHA for this substance have been evaluated under REACH.

**Substance Evaluation:** Substance included in the Community Rolling Action Plan (CoRAP).

## Authorisation

## Candidate List:

**Annex XIV (Authorisation List):**

## Restriction

**Annex XVII (Restriction List):**

## Persistent Organic Pollutants Regulation (POPs)

List of substances subject to the POPs Regulation:

List of substances proposed as POPs:

## Classification Labelling &amp; Packaging (CLP)

## Harmonised C&amp;L:

## Seveso Annex I:

**Notified C&L:** 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:

## European Union Observatory for Nanomaterials (EUON)

## EUON:

## About this substance

### General

This substance has not been registered under the REACH Regulation, therefore as yet ECHA has not received any data about this substance from registration dossiers.

This substance is used by consumers, 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: fuels, biocides (e.g. disinfectants, pest control products), lubricants and greases, plant protection products and inks and toners.

Other release to the environment of this substance is likely to occur from: outdoor use as processing aid, indoor use in close systems with minimal release (e.g. cooling liquids in refrigerators, oil-based electric heaters), outdoor use in close systems with minimal release (e.g. hydraulic liquids in automotive suspension, lubricants in motor oil and break fluids) and indoor use (e.g. machine wash liquids/detergents, automotive care products, paints and coating or adhesives, fragrances and air fresheners).

### 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

This substance is used in the following products: lubricants and greases, coating products, fuels, hydraulic fluids, biocides (e.g. disinfectants, pest control products), fillers, putties, plasters, modelling clay, washing & cleaning products, heat transfer fluids, plant protection products, inks and toners, pH regulators and water treatment products and laboratory chemicals.

This substance is used in the following areas: agriculture, forestry and fishing, printing and recorded media reproduction, health services and scientific research and development. This substance is used for the manufacture of: chemicals.

This substance is used in the following activities or processes at workplace: transfer of chemicals, closed, continuous processes with occasional controlled exposure, closed batch processing in synthesis or formulation, closed processes with no likelihood of exposure, mixing in open batch processes, laboratory work, non-industrial spraying, treatment of articles by dipping and pouring, roller or brushing applications, heat / pressure transfer fluids in closed systems, hand mixing with intimate contact only with personal protective equipment available, transfer of substance into small containers, batch processing in synthesis or formulation with opportunity for exposure, in materials as fuel sources, with limited exposure to unburned product to be expected, greasing at high energy conditions and lubrication at high energy conditions and in partly open process.

Other release to the environment of this substance is likely to occur from: outdoor use as processing aid, indoor use (e.g. machine wash liquids/detergents, automotive care products, paints and coating or adhesives, fragrances and air fresheners), outdoor use in close systems with minimal release (e.g. hydraulic liquids in automotive suspension, lubricants in motor oil and break fluids) 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: lubricants and greases, fuels, coating products, inks and toners, plant protection products, fillers, putties, plasters, modelling clay, heat transfer fluids, metal working fluids, water treatment chemicals and oil and gas exploration or production products. This substance has an industrial use resulting in manufacture of another substance (use of intermediates).

This substance is used in the following activities or processes at workplace: transfer of chemicals, laboratory work, closed batch processing in synthesis or formulation, transfer of substance into small containers, closed processes with no likelihood of exposure, closed, continuous processes with occasional controlled exposure, batch processing in synthesis or formulation with opportunity for exposure, mixing in open batch processes, production of mixtures or articles by tableting, compression, extrusion or pelletisation, roller or brushing applications and manual maintenance (cleaning and repair) of machinery.

Release to the environment of this substance can occur from industrial use: formulation of mixtures, in processing aids at industrial sites, manufacturing of the substance and formulation in materials.

### Uses at industrial sites

This substance is used in the following products: coating products, lubricants and greases, hydraulic fluids, fillers, putties, plasters, modelling clay, heat transfer fluids, fuels, metal working fluids, oil and gas exploration or production products, inks and toners, pH regulators and water treatment products, laboratory chemicals and water treatment chemicals. This substance has an industrial use resulting in manufacture of another substance (use of intermediates).

This substance is used in the following areas: mining, printing and recorded media reproduction, health services and scientific research and development. This substance is used for the manufacture of: chemicals and plastic products.

This substance is used in the following activities or processes at workplace: transfer of chemicals, closed, continuous processes with occasional controlled exposure, closed batch processing in synthesis or formulation, closed processes with no likelihood of exposure, laboratory work, transfer of substance into small containers, batch processing in synthesis or formulation with opportunity for exposure, industrial spraying, mixing in open batch processes, roller or brushing applications, treatment of articles by dipping and pouring, production of mixtures or articles by tableting, compression, extrusion or pelletisation, heat / pressure transfer fluids in closed systems, in materials as fuel sources, with limited exposure to unburned product to be expected, lubrication at high energy conditions and in partly open process, greasing at high energy conditions and manual maintenance (cleaning and repair) of machinery.

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

## Manufacture

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

Release to the environment of this substance can occur from industrial use: manufacturing of the substance, formulation of mixtures, in processing aids at industrial sites and as an intermediate step in further manufacturing of another substance (use of intermediates).

## 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: wear protective gloves and/or clothing, and eye and/or face protection as specified by manufacturer/supplier; avoid breathing the dust, fume, gas, mist, vapours or spray.

### Response statements

In case of incident: Call a poison center or doctor/physician if you feel unwell. If in eyes: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

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

## Registrants/suppliers

### Active

- AAKO BV, Arnhemseweg 87 3832 GK Leusden Netherlands
- Afton Chemical S.P.R.L. (Woluwe), Alma Court Lenneke Marelaan, 8 B-1932 St-Stevens-Woluwe Belgium
- Arkema Arrmaz, 420 rue Estienne d'Orves 92700 Colombes Cedex France
- Ashland Services BV (0311), Noordweg 9 3336 LH Zwijndrecht Netherlands
- Baker Hughes Ltd, The Ark, 201 Talgarth Road Hammersmith W6 8BJ London United Kingdom
- BASF SE, Carl-Bosch-Str. 38 67056 Ludwigshafen am Rhein Rheinland-Pfalz Germany
- ChampionX Europe B.V., Oude Rijnhofweg 17 NL-2342BB Oegstgeest Oegstgeest Netherlands
- Charles River Laboratories Den Bosch B.V. OR06, Hambakenwetering 7 5231DD 's-Hertogenbosch Netherlands
- Chimcomplex S.A. Borzesti, 3, Industriilor Street 601124 Onesti Bacau Romania
- CHT Germany GmbH, Bismarckstr. 102 72072 Tuebingen Germany
- Covance Clinical Development SA 148, Parque Empresarial Las Tablas, Edificio 1 Calle Federico Mompou, 5 - 5 Planta 28050 Madrid Spain
- Covestro Deutschland AG, Kaiser-Wilhelm-Allee 60 51373 Leverkusen Germany
- CS Regulatory Ltd 1L-15, The Old Courthouse St Peters Churchyard DE11NN Derby Derbyshire United Kingdom
- Cytec Industries BV, Burgemeester van Lierplein 75 3134 ZB Vlaardingen Netherlands
- DEZA a.s., Masarykova 753 75701 Valasske Mezirici Czech Republic
- Dow Belgium B.V.B.A., Grotesteenweg 214 B-2600 Antwerpen (Berchem) Belgium Belgium
- DOW BENELUX B.V. - OR2, Postbus 48 4530 AA Terneuzen Netherlands
- Evonik Operations GmbH - ME01, Rellinghauser Straße 1-11 45128 Essen Germany
- Grupa Azoty Zakłady Azotowe Kędzierzyn Spółka Akcyjna, skr. poczt. 163 ul. Mostowa 30A 47-220 Kędzierzyn-Koźle Poland
- HH Compliance Ltd, Rubicon Building CIT Campus T12 Y275 Bishopstown Cork Ireland
- INEOS Derivatives Lavera SAS (Oxide), Avenue de la bienfaisance BP6 133117 Lavera France
- John Hogg Technical Solutions Ltd, Mellors Road Trafford Park M17 1PB Manchester United Kingdom
- KISCHEMICALS LLC, Gyártelep 3792 Sajóbáony Hungary
- Lubrizol Europe Coordination Center BVBA 01, Chaussee De Wavre, 1945 1945 Brussels Belgium
- Lubrizol France SAS, 25 Quai de France 76100 ROUEN France
- Momentive Performance Materials GmbH, Chempark Building V7 51368 Leverkusen NRW Germany
- Nalco Limited, P.O. Box 11, Winnington Avenue, CW8 4DX Northwich, Cheshire United Kingdom
- Nouryon Surface Chemistry AB, Stenunge Allé 3 - S-44485 Stenungsund - Sweden
- NP Automotive Coating (Europe) Ltd, Britannia Park Radway Road SN3 4ND Swindon Wiltshire United Kingdom
- OQ Chemicals Produktion GmbH & Co. KG, Otto-Roelen-Str. 3 46147 Oberhausen NRW Germany
- Perstorp Oxo AB, Sanden Ödsmåll 444 84 Stenungsund Sweden
- PETROCHINA INTERNATIONAL (LONDON) CO., LTD, 11th Floor, The Adelphi, 1-11 John Adam Street, WC2N 6HT LONDON United Kingdom
- PPG Industries Italia Srl Società soggetta a direzione e coordinamento da parte di PPG Industries Inc., Via Serra, 1 15028 Quattordio Italy
- PPG Kansai Automotive Finishes France SAS, Les Dix Muids 59583 Marly France
- REACHLaw Ltd., Vänrikinkuja 3 JK 21 02600 Espoo Finland
- SABIC Petrochemicals B.V., Europaboulevard 1 6135 LD Sittard Netherlands
- SIGMA-ALDRICH CHEMIE GMBH, Riedstrasse 2 89555 Steinheim Germany
- SO.IT.EM. SRL, via R. Cozzi, 34 20125 Milano Milano Italy
- TÜV SÜD Iberia S.A.U. (051), Ronda Can Fatjó 13 08290 Cerdanyola del Vallès Barcelona Spain

### Inactive

- N.V. ASAHI PHOTOPRODUCTS (EUROPE) S.A., Paepsem Business Park Boulevard Paepsem 22 1070 Brussels Belgium

## Substance names and other identifiers

### Regulatory process names

1-Hexanol, 2-ethyl-	Other	2-ethylhexan-1-ol	EC Inventory, Substance Evaluation - CoRAP, REACH pre-registration, Occupational Exposure Limits - 4th list - Indicative OELVs
2-Aethylhexanol	Other	2-Ethylhexanol	Other
2-Ethyl-1-hexanol	Other, FCM and Articles Regulation, Annex I - Authorised Substances, FCMs Recycled Plastic & Articles Regulation - Annex I - Authorised Use	2-Ethylhexyl alcohol	Other
		Alcohol, 2-ethylhexyl	Other
		Ethylhexanol	Other
		Octyl alcohol	Other

### Translated names

### CAS names

### IUPAC names

2 ethylhexan 1 ol	C&L Inventory	ETHYLHEXANOL-2	C&L Inventory
2-ethyl hexanol	C&L Inventory	Isooctyl alcohol, , Isooctanol, 2-Ethyl-1-hexanol	Registration dossier
2-ethylhexal-1-ol	C&L Inventory	Octanol	Registration dossier
Ethyl hexyl alcohol	Registration dossier		

### Trade names

1-Ethyl-1-hexanol	Registration dossier	2-Ethylhexanol; Ethylhexanol	Registration dossier
1-Hexanol, 2-ethyl- (8Cl, 9Cl)	Registration dossier	2-Ethylhexylalkohol	Registration dossier
2-EH	C&L Inventory, Registration dossier	2-Etil esanolo	Registration dossier
2-Ethyl-hexanol-1	Registration dossier	2-Äthylhexanol	C&L Inventory
2-ethylhexanol (2-EH)	Registration dossier	alcol 2-etilesilico	Registration dossier
2-Ethylhexanol iso-Octanol	Registration dossier	Ethylhexyl alcohol	Registration dossier
2-Ethylhexanol-1	Registration dossier	Hexanol, 2-ethyl-	Registration dossier
2-Ethylhexanol; 2-Ethylhexylalcohol; Isooctanol; Octylalcohol; 2-EH	Registration dossier	Isooctanol	Registration dossier
		isoottanolo	Registration dossier

### Other names

2 ethyl hexanol	REACH pre-registration
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### Other identifiers

104-76-7	CAS number	EC Inventory, C&L Inventory, Substance Evaluation - CoRAP, Registration dossier, REACH pre-registration, Other, Occupational Exposure Limits - 4th list - Indicative OELVs, FCM and Articles Regulation, Annex I - Authorised Substances, FCMs Recycled Plastic & Articles Regulation - Annex I - Authorised Use	111675-57-1	CAS number	Other
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## 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

<b>Study results</b>	2 studies submitted 2 studies processed	<b>Type of Study provided</b>	<b>C</b> <b>Summaries</b>	1 summary submitted 1 summary processed
<b>C</b> <b>Physical state at 20°C and 1013 hPa</b> Liquid (100%) [2]		<b>Studies with data</b> Key study 2	<b>Data waiving</b> no waivers	<b>Physical state at 20°C and 1013 hPa</b> Liquid (100%)
<b>C</b> <b>Odour</b> Slight (50%), Other (50%) [2]				
<b>C</b> <b>Substance type</b> Organic (100%) [2]				

#### Melting/freezing point

<b>Study results</b>	2 studies submitted 1 study processed	<b>Type of Study provided</b>	<b>R</b> <b>Summaries</b>	1 summary submitted 1 summary processed
<b>R</b> <b>Melting / freezing point</b> -89 °C [1]		<b>Studies with data</b> Key study 1 Supporting study 1	<b>Data waiving</b> no waivers	<b>Melting / freezing point at 101 325 Pa</b> -89 °C

#### Boiling point

<b>Study results</b>	3 studies submitted 2 studies processed	<b>Type of Study provided</b>	<b>R</b> <b>Summaries</b>	1 summary submitted 1 summary processed
<b>R</b> <b>Boiling point</b> 184 - 186 °C @ 101.3 kPa [2]		<b>Studies with data</b> Key study 2 Supporting study 1	<b>Data waiving</b> no waivers	<b>Boiling point at 101 325 Pa</b> 185 °C

#### Density

<b>Study results</b>	2 studies submitted 2 studies processed	<b>Type of Study provided</b>	<b>R</b> <b>Summaries</b>	1 summary submitted 1 summary processed
<b>R</b> <b>Density</b> 0.833 g/cm³ @ 20 °C [1]		<b>Studies with data</b> Key study 2	<b>Data waiving</b> no waivers	<b>Relative density at 20°C</b> 0.832
<b>R</b> <b>Relative density</b> 0.832 @ 20 °C [1]				

## Vapour pressure

### Study results

3 studies submitted  
1 study processed

### Type of Study provided

**R** Summaries

1 summary submitted  
1 summary processed

**R** Vapour pressure  
93 - 380 Pa @ 20 - 50 °C [3]

### Studies with data



Data waiving  
no waivers

Vapour pressure  
93 Pa @ 20 °C

Key study	1			
Supporting study	1		1	

## Partition coefficient

### Study results

2 studies submitted  
1 study processed

### Type of Study provided

**R** Summaries

1 summary submitted  
1 summary processed

**R** Log Pow  
2.9 @ 25 °C and pH 7 [1]

### Studies with data



Data waiving  
no waivers

Log Kow (Log Pow)  
2.9 @ 25 °C

Key study	1			
Supporting study			1	

## Water solubility

### Study results

2 studies submitted  
1 study processed

### Type of Study provided

**R** Summaries

1 summary submitted  
1 summary processed

**R** Water solubility (mass/vol.)  
900 mg/L @ 20 °C and pH 5.8 [1]

### Studies with data



Data waiving  
no waivers

Water solubility  
900 mg/L @ 20 °C

Key study	1			
Supporting study	1			

Solubility in organic solvents / fat solubility

⚠ Data not provided by the registrant

## Surface tension

### Study results

1 study submitted  
1 study processed

### Type of Study provided

**R** Summaries

1 summary submitted  
1 summary processed

**R** Surface tension  
47 mN/m @ 810 mg/L and 20 °C [1]

### Studies with data



Data waiving  
no waivers

Surface tension at 20 °C  
47 mN/m @ 810 mg/L

Key study	1			
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## Flash point

### Study results

2 studies submitted  
2 studies processed

### Type of Study provided

**R** Summaries

1 summary submitted  
1 summary processed

**R** Flash point  
75 - 77 °C @ 101.3 kPa [2]

### Studies with data



Data waiving  
no waivers

Flash point at 101 325 Pa  
75 °C

Key study	2			
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## Auto flammability

### Study results

2 studies submitted  
1 study processed

### Type of Study provided

**R** Summaries

1 summary submitted  
1 summary processed

**R** Autoflammability / self-ignition  
280 °C @ 101.7 kPa [1]

### Studies with data

			
Key study	1		
Supporting study	1		

### Data waiving

no waivers

Autoflammability / self-ignition at 101 325 Pa  
280 °C

## Flammability

### 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

			
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### Data waiving

Sci.  
unjustified 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

			
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### 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

			
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### Data waiving

Other 1

 No data available

## Oxidation reduction potential

 Data not provided by the registrant

## pH

 Data not provided by the registrant

## Dissociation constant

### Study results

3 studies submitted  
1 study processed

### Type of Study provided

### Summaries

1 summary submitted  
0 summaries processed

**C** Dissociating properties  
No (100%) [1]

**R** Dissociation constant  
15.75 @ 25 °C [1]

### Studies with data

			
Weight of evidence		1	2

### Data waiving

no waivers

 No automatically processable data submitted



## Viscosity

### Study results

2 studies submitted  
2 studies processed

### Type of Study provided

**R** Summaries

1 summary submitted  
1 summary processed

**R** dynamic viscosity (in mPa s)  
4.3 - 9.845 [3]

### Studies with data



Key study

2

### Data waiving

no waivers

Dynamic viscosity at 20 °C  
9.8 mPa.s

## 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



Supporting study

1

### Data waiving

no waivers

**⚠** No data available

### 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

Other

1

**⚠** No data available

### Phototransformation in water

**⚠** Data not provided by the registrant

### Phototransformation in soil

**⚠** Data not provided by the registrant

### Biodegradation in water - screening tests

#### Study results

4 studies submitted  
1 study processed

#### Type of Study provided

**C** Summaries

1 summary submitted  
1 summary processed

**C** Interpretation of results  
Readily biodegradable (100%) [1]

### Studies with data



Key study

1

Supporting study

2

1

### Data waiving

no waivers

Biodegradation in water  
Readily biodegradable (100%)

### Biodegradation in water & sediment - simulation tests

#### Study results

0 studies submitted  
0 studies processed

#### Type of Study provided

#### Summaries

1 summary submitted  
0 summaries processed

**⚠** Study data not processed for brief profile

### Studies with data



### Data waiving

no waivers

**⚠** No automatically processable data submitted



## 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	17 µg/L (1)
Intermittent releases (freshwater)	170 µg/L (1)
Marine water	1.7 µg/L (1)
Intermittent releases (marine water)	-
Sewage treatment plant (STP)	10 mg/L (1)
Sediment (freshwater)	284 µg/kg sediment dw (1)
Sediment (marine water)	28.4 µg/kg sediment dw (1)

### Hazard for Air

Air	No hazard identified (1)
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### Hazard for Terrestrial Organism

Soil	47 µg/kg soil dw (1)
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### Hazard for Predators

Secondary poisoning	55 mg/kg food (1)
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## Short-term toxicity to fish

**Study results** 6 studies submitted  
2 studies processed

### Type of Study provided

**R** Summaries 1 summary submitted  
1 summary processed

#### P/R Results

LC50 (4 days) 17.1 - 28.2 mg/L [2]  
LC100 (4 days) 21 mg/L [1]  
NOEC (4 days) 14 mg/L [1]

#### Studies with data

Key study	2			
Supporting study	1			1
Other	1			1

#### Data waiving

no waivers

#### LC50 for freshwater fish

17.1 mg/L

## 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

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#### Data waiving

Other 1

**No data available**

## Short-term toxicity to aquatic invertebrates

**Study results** 4 studies submitted  
1 study processed

### Type of Study provided

**R** Summaries 1 summary submitted  
1 summary processed

#### P/R Results

EC50 (48 h) 39 mg/L [1]

#### Studies with data

Key study	1			
Supporting study				2
Other			1	





#### Data waiving

no waivers





#### EC50 / LC50 for freshwater invertebrates

39 mg/L

## Long-term toxicity to aquatic invertebrates

Study results	1 study submitted 0 studies processed	Type of Study provided	Summaries	0 summaries submitted 0 summaries processed
⚠ No automatically processable data submitted		<b>Studies with data</b>    	<b>Data waiving</b> Other 1	⚠ No data available





## Toxicity to aquatic algae and cyanobacteria

Study results	3 studies submitted 1 study processed	Type of Study provided	<b>R</b> Summaries	1 summary submitted 1 summary processed
<b>P/R Results</b> EC50 (72 h) 11.5 - 16.6 mg/L [2] EC10 (72 h) 3.2 - 5.3 mg/L [2] EC0 (72 h) 2 mg/L [1]		<b>Studies with data</b>    	<b>Data waiving</b> no waivers	<b>EC50 for freshwater algae</b> 16.6 mg/L  <b>EC10 or NOEC for freshwater algae</b> 5.3 mg/L
		Key study 1 Supporting study 1 Other 1		





## 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		<b>Studies with data</b>    	<b>Data waiving</b> Other 1	⚠ No data available
		Supporting study 1		





## Sediment toxicity

Study results	1 study submitted 0 studies processed	Type of Study provided	Summaries	1 summary submitted 0 summaries processed
⚠ No automatically processable data submitted		<b>Studies with data</b>    	<b>Data waiving</b> Other 1	⚠ No automatically processable data submitted

## Endocrine disrupter testing in aquatic vertebrates – in vivo

⚠ Data not provided by the registrant

## Toxicity to terrestrial macroorganisms except arthropods

Study results	1 study submitted 0 studies processed	Type of Study provided	Summaries	1 summary submitted 0 summaries processed
⚠ No automatically processable data submitted		<b>Studies with data</b>    	<b>Data waiving</b> Other 1	⚠ No automatically processable data submitted

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

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

Toxicity to soil microorganisms				
Study results	1 study submitted 0 studies processed	Type of Study provided	Summaries	1 summary submitted 0 summaries processed
⚠ No automatically processable data submitted		<b>Studies with data</b>	<b>Data waiving</b> Other 1	⚠ No automatically processable data submitted

Toxicity to birds				
Study results	1 study submitted 0 studies processed	Type of Study provided	Summaries	1 summary submitted 0 summaries processed
⚠ No automatically processable data submitted		<b>Studies with data</b>	<b>Data waiving</b> Other 1	⚠ No automatically processable data submitted

Toxicity to mammals			⚠ Data not provided by the registrant	
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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
Systemic Effects		
Long-term:	(DNEL) 12.8 mg/m³	repeated dose toxicity
Acute /short term:	Low hazard (no threshold derived)	
Local Effects		
Long-term:	(DNEL) 53.2 mg/m³	irritation (respiratory tract)
Acute /short term:	(DNEL) 53.2 mg/m³	irritation (respiratory tract)
DERMAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 23 mg/kg bw/day	repeated dose toxicity
Acute /short term:	No hazard identified	
Local Effects		
Long-term:	Medium hazard (no threshold derived)	
Acute /short term:	Medium hazard (no threshold derived)	
EYE Exposure		
Medium hazard (no threshold derived)		

### Data for the GENERAL POPULATION

INHALATION Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 2.3 mg/m³	repeated dose toxicity
Acute /short term:	Low hazard (no threshold derived)	
Local Effects		
Long-term:	(DNEL) 26.6 mg/m³	irritation (respiratory tract)
Acute /short term:	(DNEL) 26.6 mg/m³	irritation (respiratory tract)
DERMAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 11.4 mg/kg bw/day	repeated dose toxicity
Acute /short term:	No hazard identified	
Local Effects		
Long-term:	Medium hazard (no threshold derived)	
Acute /short term:	Medium hazard (no threshold derived)	
ORAL Exposure	Threshold	Most sensitive study
Systemic Effects		
Long-term:	(DNEL) 1.1 mg/kg bw/day	repeated dose toxicity
Acute /short term:	No hazard identified	
EYE Exposure		
Medium hazard (no threshold derived)		

## Toxicokinetics, metabolism, and distribution





### Study results

Study data: basic toxicokinetics 6 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

### Type of Study provided

Study data: basic toxicokinetics

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

#### Data waiving

no waivers

M/C

Summaries

1 summary submitted  
1 summary processed

#### Bioaccumulation potential:

No bioaccumulation potential





#### Absorption values

Dermal: 6.6 %

Study data: dermal absorption 2 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

Study data: dermal absorption

Studies with data				
Key study	1			
Supporting study	1			

#### Data waiving

no waivers

## Acute toxicity

### Study results

oral 13 studies submitted  
1 study processed

**P/R Results**  
LD50 2 047 mg/kg bw (rat) [1]

**M/C Interpretations of results**  
Not classified [1]

inhalation 8 studies submitted  
1 study processed

**P/R Results**  
LC50 (4 h) 890 - 5 300 mg/m<sup>3</sup> air (rat) [1]

**M/C Interpretations of results**  
Toxicity Category IV [1]

dermal 3 studies submitted  
1 study processed

**P/R Results**  
LD0 3 000 mg/kg bw (rat) [1]

**M/C Interpretations of results**  
Not classified [1]

other routes 2 studies submitted  
0 studies processed

**⚠ No automatically processable data submitted**

### Type of Study provided

oral

Studies with data					Data waiving
Key study	1				no waivers
Supporting study	2				
Other	10				

inhalation

Studies with data					Data waiving
Key study	1				no waivers
Other	7				

dermal

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

other routes

Studies with data					Data waiving
Other	2				no waivers

M/C

Summaries

1 summary submitted  
1 summary processed

### Oral route:

Adverse effect observed LD50 2 047 mg/kg bw

### Dermal route:

No adverse effect observed Discriminating dose 3 000 mg/kg bw



## Irritation / corrosion

### Study results

Study data: skin 9 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

### Type of Study provided

Study data: skin

Studies with data				
Key study	1			
Other	6			1

#### Data waiving

Sci. unjustified 1

M/C

Summaries

1 summary submitted  
1 summary processed

#### Skin

Adverse effect observed (irritating)

#### Eye

Adverse effect observed (irritating)





#### Respiratory

Adverse effect observed (irritating)

Study data: eye 8 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

Study data: eye

Studies with data				
Key study	2			
Supporting study	1			
Other	3			1

#### Data waiving

Sci. unjustified 1

## Sensitisation

### Study results

Study data: skin 1 study submitted  
0 studies processed

⚠ Study data not processed for brief profile

### Type of Study provided

Study data: skin

Studies with data				
Key study	1			
Other	0			0

#### Data waiving

Sci. unjustified 1

M/C

Summaries

1 summary submitted  
1 summary processed

#### Skin sensitisation

No adverse effect observed (not sensitising)

Study data: respiratory 0 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

Study data: respiratory

Studies with data				
Key study	0			
Other	0			0

#### Data waiving

no waivers

## Repeated dose toxicity

### Study results

Study data: oral 16 studies submitted  
2 studies processed

#### P/R Results

NOAEL (rat): 250 mg/kg bw/day [1]  
NOAEL (mouse): 250 mg/kg bw/day [1]  
NOEL (rat): 125 mg/kg bw/day [1]  
NOEL (mouse): 125 mg/kg bw/day [1]

### Type of Study provided

Study data: oral

#### Studies with data

Key study 2  
Other 14

#### Data waiving

no waivers

M/C

### Summaries

1 summary submitted  
1 summary processed

#### Oral route - systemic effects:

Adverse effect observed NOAEL 200 mg/kg bw/day (chronic, mouse)

#### Inhalation route - systemic effects:

No adverse effect observed NOAEC 638.4 mg/m<sup>3</sup> (subchronic, rat)

Study data: inhalation 1 study submitted  
1 study processed

#### P/R Results

NOAEC (rat): 638.4 mg/m<sup>3</sup> air [1]  
NOAEC (rat): 120 ppm [1]

Study data: inhalation

#### Studies with data

Key study 1

#### Data waiving

no waivers

Study data: dermal 2 studies submitted  
0 studies processed

⚠ No automatically processable data submitted

Study data: dermal

#### Studies with data

Supporting study 2

#### Data waiving

no waivers

## Genetic toxicity

### Study results

Study data: in vitro 24 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

### Type of Study provided

Study data: in vitro

#### Studies with data

Key study 3  
Supporting study 5  
Other 12

#### Data waiving

no waivers

### Summaries

1 summary submitted  
0 summaries processed

⚠ No automatically processable data submitted

Study data: in vivo 5 studies submitted  
0 studies processed

⚠ Study data not processed for brief profile

Study data: in vivo

#### Studies with data

Supporting study 5




#### Data waiving

no waivers

Carcinogenicity											
Study results	2 studies submitted 0 studies processed	Type of Study provided	Summaries 1 summary submitted 0 summaries processed								
⚠ Study data not processed for brief profile		<b>Studies with data</b> <table> <tr> <td></td><td></td><td></td><td></td></tr> <tr> <td>Key study</td><td>2</td><td></td><td></td></tr> </table> <b>Data waiving</b> no waivers					Key study	2			⚠ No automatically processable data submitted
Key study	2										

Toxicity to reproduction															
Study results		Type of Study provided	M/C Summaries 1 summary submitted 1 summary processed												
Study data: reproduction	3 studies submitted 0 studies processed	Study data: reproduction	<b>Effect on fertility</b> <p><b>Oral route:</b> No adverse effect observed NOAEL 149 mg/kg bw/day (subchronic, rat)</p> <b>Effect on developmental toxicity</b> <p><b>Oral route:</b> No adverse effect observed NOAEL 191 mg/kg bw/day (subacute, mouse)</p> <p><b>Dermal route:</b> No adverse effect observed NOAEL 2 520 mg/kg bw/day (subacute, rat)</p> <p><b>Inhalation route:</b> No adverse effect observed NOAEC 850 mg/m³ (subacute, rat)</p>												
⚠ Study data not processed for brief profile		<b>Studies with data</b> <table> <tr> <td></td><td></td><td></td><td></td></tr> <tr> <td>Key study</td><td></td><td></td><td>1</td></tr> <tr> <td>Other</td><td>1</td><td></td><td></td></tr> </table> <b>Data waiving</b> Other 1					Key study			1	Other	1			
Key study			1												
Other	1														
Study data: developmental	8 studies submitted 0 studies processed	Study data: developmental													
⚠ Study data not processed for brief profile		<b>Studies with data</b> <table> <tr> <td></td><td></td><td></td><td></td></tr> <tr> <td>Weight of evidence</td><td>4</td><td></td><td></td></tr> <tr> <td>Other</td><td>3</td><td></td><td></td></tr> </table> <b>Data waiving</b> Sci. unjustified 1					Weight of evidence	4			Other	3			
Weight of evidence	4														
Other	3														
Study data: other studies	0 studies submitted 0 studies processed	Study data: other studies													
⚠ Study data not processed for brief profile		<b>Studies with data</b> <table> <tr> <td></td><td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td></tr> </table> <b>Data waiving</b> no waivers													

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

Type of study	Type of aggregation
 Experimental results	<input type="checkbox"/> C Concatenated distinct values
Read across based on grouping of substance (category approach) or	<input type="checkbox"/> R Range of values
 Read-across from supporting substance (structural analogue or surrogate)	<input type="checkbox"/> P/R Prioritisation (Eco)Toxicology AND Range of values
 Estimated by calculation or (Q)SAR	<input type="checkbox"/> M/C Most Conservative of values
Experimental study planned, other or unspecified	

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**SCHEDA DI DATI DI SICUREZZA**

secondo il Regolamento (CE) Num. 1907/2006

Versione 6.0

Data di revisione 20.09.2019

Data di stampa 13.12.2019

**SEZIONE 1: identificazione della sostanza/miscela e della società/impresa****1.1 Identificatori del prodotto**

Nome del prodotto : 2-Ethyl-1-hexanol

Codice del prodotto : 04050

Marca : Sigma-Aldrich

Num. REACH : 01-2119487289-20-XXXX

N. CAS : 104-76-7

**1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati**

Usi identificati : Chimici di laboratorio, Produzione di sostanze chimiche

**1.3 Informazioni sul fornitore della scheda di dati di sicurezza**Società : Merck Life Science S.r.l.  
Via Monte Rosa 93  
I-20149 MILANO

Telefono : +39 02 3341 7340

Fax : +39 02 3801 0737

Indirizzo e-mail : serviziotechico@merckgroup.com

**1.4 Numero telefonico di emergenza**Telefono per le emergenze : 800-789-767 (CHEMTREC Italia)  
+39-02-4555-7031 (CHEMTREC chiamate internazionali)  
+39 02-6610-1029 (Centro Antiveleni Niguarda Ca' Granda - Milano)**SEZIONE 2: identificazione dei pericoli****2.1 Classificazione della sostanza o della miscela****Classificazione secondo il Regolamento (CE) n. 1272/2008**

Tossicità acuta, Inalazione (Categoria 4), H332

Irritazione cutanea (Categoria 2), H315

Irritazione oculare (Categoria 2), H319

Tossicità specifica per organi bersaglio - esposizione singola (Categoria 3), Sistema respiratorio, H335

Per quanto riguarda il testo completo delle indicazioni di pericolo menzionate in questo paragrafo, riferirsi al paragrafo 16.

**2.2 Elementi dell'etichetta****Etichettatura secondo il Regolamento (CE) n. 1272/2008**

Pittogramma



Avvertenza

Attenzione

Indicazioni di pericolo

H315

Provoca irritazione cutanea.

H319

Provoca grave irritazione oculare.

H332

Nocivo se inalato.

H335

Può irritare le vie respiratorie.

Consigli di prudenza

P302 + P352

IN CASO DI CONTATTO CON LA PELLE: lavare abbondantemente con acqua.

P304 + P340 + P312

IN CASO DI INALAZIONE: trasportare l'infortunato all'aria aperta e mantenerlo a riposo in posizione che favorisca la respirazione. In caso di malessere, contattare un CENTRO ANTIVELENI/un medico.

P305 + P351 + P338

IN CASO DI CONTATTO CON GLI OCCHI: sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare.

Descrizioni supplementari  
del rischio

nessuno(a)

### 2.3 Altri pericoli

Questa sostanza/miscela non contiene componenti considerati sia persistenti, bioaccumulabili che tossici (PBT), oppure molto persistenti e molto bioaccumulabili (vPvB) a concentrazioni di 0.1% o superiori.

## SEZIONE 3: composizione/informazioni sugli ingredienti

### 3.1 Sostanze

Sinonimi : Isooctyl alcohol

Formula :  $C_8H_{18}O$

Peso Molecolare : 130,23 g/mol

N. CAS : 104-76-7

N. CE : 203-234-3

Component	Classificazione	Concentrazion e
<b>2-Ethylhexan-1-ol</b>		
	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H332, H315, H319, H335 Limiti di concentrazione: >= 20 %: STOT SE 3, H335;	<= 100 %

Per quanto riguarda il testo completo delle indicazioni di pericolo menzionate in questo paragrafo, riferirsi al paragrafo 16.

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## **SEZIONE 4: misure di primo soccorso**

### **4.1 Descrizione delle misure di primo soccorso**

#### **Informazione generale**

Consultare un medico. Mostrare questa scheda di sicurezza al medico curante.

#### **Se inalato**

Se viene respirato, trasportare la persona all'aria fresca. Se non respira, somministrare respirazione artificiale. Consultare un medico.

#### **In caso di contatto con la pelle**

Lavare con sapone e molta acqua. Consultare un medico.

#### **In caso di contatto con gli occhi**

Sciacquare accuratamente ed abbondantemente con acqua per almeno 15 minuti e rivolgersi ad un medico.

#### **Se ingerito**

NON indurre il vomito. Non somministrare alcunchè a persone svenute. Sciacquare la bocca con acqua. Consultare un medico.

### **4.2 Principali sintomi ed effetti, sia acuti che ritardati**

I più importanti sintomi ed effetti conosciuti sono descritti nella sezione 2.2 sull'etichettatura e/o nella sezione 11.

### **4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**

Nessun dato disponibile

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## **SEZIONE 5: misure antincendio**

### **5.1 Mezzi di estinzione**

#### **Mezzi di estinzione idonei**

Utilizzare acqua nebulizzata, schiuma alcool resistente, prodotti chimici asciutti o anidride carbonica.

### **5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela**

Ossidi di carbonio

### **5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**

Se necessario, indossare un respiratore autonomo per spegnere l'incendio.

### **5.4 Ulteriori informazioni**

Spruzzi d'acqua possono essere usati per raffreddare contenitori chiusi.

---

## **SEZIONE 6: misure in caso di rilascio accidentale**

### **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza**

Usare i dispositivi di protezione individuali. Evitare di respirare vapori/nebbia/gas. Prevedere una ventilazione adeguata. Eliminare tutte le sorgenti di combustione. Evacuare il personale in aree di sicurezza. Attenti ai vapori addensati che possono formare delle concentrazioni esplosive. I vapori si possono addensare in zone poco elevate.

Vedere Sezione 8 per i dispositivi di protezione individuale.

## 6.2 Precauzioni ambientali

Evitare sversamenti o perdite supplementari, se questo può essere fatto senza pericolo. Non lasciar penetrare il prodotto negli scarichi. La discarica nell'ambiente deve essere evitata.

## 6.3 Metodi e materiali per il contenimento e per la bonifica

Contenere e raccogliere quanto riversato accidentalmente con un aspirapolvere protetto dalle scariche elettriche o con una spazzola bagnata e porlo in un recipiente rispettando le direttive locali (riferirsi alla sezione 13). Conservare in contenitori adatti e chiusi per lo smaltimento.

## 6.4 Riferimento ad altre sezioni

Per lo smaltimento riferirsi alla sezione 13.

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## SEZIONE 7: manipolazione e immagazzinamento

### 7.1 Precauzioni per la manipolazione sicura

Evitare il contatto con gli occhi e con la pelle. Non inalare vapori o nebbie. Conservare lontano da fiamme e scintille - Non fumare. Prendere misure preventive per evitare la produzione di cariche elettrostatiche. Per le precauzioni vedere la sezione 2.2.

### 7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità

Immagazzinare in luogo fresco. Tenere il contenitore ermeticamente chiuso in un ambiente secco e ben ventilato.

### 7.3 Usi finali particolari

A parte gli usi descritti nella sezione 1.2 non sono contemplati altri usi specifici.

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## SEZIONE 8: controllo dell'esposizione/protezione individuale

### 8.1 Parametri di controllo

#### Componenti con limiti di esposizione

Component	N. CAS	Valore	Parametri di controllo	Base
2-Ethylhexan-1-ol	104-76-7	TWA	1 ppm 5,4 mg/m <sup>3</sup>	Direttiva (UE) 2017/164 della Commissione, che definisce un quarto elenco di valori indicativi di esposizione professionale in attuazione della direttiva 98/24/CE del Consiglio e che modifica le direttive 91/322/CEE, 2000/39/CE e 2009/161/UE della Commissione
	Osservazioni	Indicativo		

### 8.2 Controlli dell'esposizione

#### Controlli tecnici idonei

Manipolare rispettando le buone pratiche di igiene industriale e di sicurezza adeguate. Lavarsi le mani prima delle pause ed alla fine della giornata lavorativa.



## Protezione individuale

### Protezioni per occhi/volto

Visiera e occhiali di protezione. Utilizzare dispositivi per la protezione oculare testati e approvati secondo i requisiti di adeguate norme tecniche come NIOSH (USA) o EN 166 (EU)

### Protezione della pelle

Manipolare con guanti. I guanti devono essere controllati prima di essere usati. Usare una tecnica adeguata per la rimozione dei guanti (senza toccare la superficie esterna del guanto) per evitare il contatto della pelle con questo prodotto. Smaltire i guanti contaminati dopo l'uso in accordo con la normativa vigente e le buone pratiche di laboratorio. Lavare e asciugare le mani.

I guanti di protezione selezionati devono soddisfare le esigenze della direttiva (UE) 2016/425 e gli standard EN 374 che ne derivano.

Pieno contatto

Materiale: Gomma nitrilica

spessore minimo: 0,4 mm

Tempo di permeazione: 480 min

Materiale testato: Camatril® (KCL 730 / Aldrich Z677442, Taglia M)

Contatto da spruzzo

Materiale: Gomma nitrilica

spessore minimo: 0,11 mm

Tempo di permeazione: 141 min

Materiale testato: Dermatril® (KCL 740 / Aldrich Z677272, Taglia M)

Fonte dei dati: KCL GmbH, D-36124 Eichenzell, tel. +49 (0)6659 87300, e-mail sales@kcl.de, metodo di prova: EN374

Se usato in soluzione, o mischiato con altre sostanze, e in condizioni diverse da quelle menzionate nella norma EN 374, contattare il fornitore di guanti approvati dalla CE. Questa raccomandazione vale a titolo di consiglio e dev'essere valutata da un igienista industriale e da un responsabile della sicurezza al corrente della situazione specifica dell'uso previsto dai nostri clienti. Non si deve interpretare come un'approvazione di uno specifico scenario di esposizione.

### Protezione fisica

Indumenti protettivi completi resistenti alle sostanze chimiche, Il tipo di attrezzatura di protezione deve essere selezionato in funzione della concentrazione e la quantità di sostanza pericolosa al posto di lavoro.

### Protezione respiratoria

Qualora la valutazione del rischio preveda la necessità di respiratori ad aria purificata, utilizzare una maschera a pieno facciale con filtri combinati di tipo ABEK (EN 14387) come supporto alle misure tecniche. Se il respiratore costituisce il solo mezzo di protezione, utilizzare un sistema ventilato a pieno facciale. Utilizzare respiratori e componenti testati e approvati dai competenti organismi di normazione, quali il NIOSH (USA) il CEN (UE).

### Controllo dell'esposizione ambientale

Evitare sversamenti o perdite supplementari, se questo può essere fatto senza pericolo. Non lasciar penetrare il prodotto negli scarichi. La discarica nell'ambiente deve essere evitata.

---

## SEZIONE 9: proprietà fisiche e chimiche

### 9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali

a) Aspetto	Stato fisico: liquido
b) Odore	Nessun dato disponibile
c) Soglia olfattiva	Nessun dato disponibile
d) pH	Nessun dato disponibile
e) Punto di fusione/punto di congelamento	Punto/intervallo di fusione: -76 °C
f) Punto di ebollizione iniziale e intervallo di ebollizione.	183 - 186 °C
g) Punto di infiammabilità	75 °C - vaso chiuso
h) Velocità di evaporazione	Nessun dato disponibile
i) Infiammabilità (solidi, gas)	Nessun dato disponibile
j) Infiammabilità superiore/inferiore o limiti di esplosività	Limite superiore di esplosività: 9,7 %(V) Limite inferiore di esplosività: 0,88 %(V)
k) Tensione di vapore	0,2 mmHg a 20 °C
l) Densità di vapore	4,5 - (Aria = 1.0)
m) Densità relativa	0,833 g/mL a 25 °C
n) Idrosolubilità	1 g/l a 20 °C
o) Coefficiente di ripartizione: n-ottanolo/acqua	log Pow: 2,9 a 25 °C
p) Temperatura di autoaccensione	Nessun dato disponibile
q) Temperatura di decomposizione	Nessun dato disponibile
r) Viscosità	Nessun dato disponibile
s) Proprietà esplosive	Nessun dato disponibile
t) Proprietà ossidanti	Nessun dato disponibile

### 9.2 Altre informazioni sulla sicurezza

Densità di vapore relativa	4,5 - (Aria = 1.0)
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## SEZIONE 10: stabilità e reattività

### 10.1 Reattività

Nessun dato disponibile

## **10.2 Stabilità chimica**

Stabile nelle condizioni di stoccaggio raccomandate.

## **10.3 Possibilità di reazioni pericolose**

Nessun dato disponibile

## **10.4 Condizioni da evitare**

Calore, fiamme e scintille.

## **10.5 Materiali incompatibili**

Acidi forti, Agenti ossidanti forti

## **10.6 Prodotti di decomposizione pericolosi**

Prodotti di decomposizione pericolosi in caso d'incendio. - Ossidi di carbonio

Altre prodotti di decomposizione pericolosi - Nessun dato disponibile

In caso di incendio: vedere la sezione 5

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## **SEZIONE 11: informazioni tossicologiche**

### **11.1 Informazioni sugli effetti tossicologici**

#### **Tossicità acuta**

DL50 Orale - Ratto - 3.730 mg/kg

Osservazioni: Cervello ed annessi: registrazioni dalle specifiche aree del SNC

Comportamento: sonnolenza (attività depressiva generica) Polmoni, torace o respirazione: dispnea

#### **Corrosione/irritazione cutanea**

Pelle - Su coniglio

Risultato: Irritante per la pelle - 24 h

(Linee Guida 404 per il Test dell'OECD)

#### **Lesioni oculari gravi/irritazioni oculari gravi**

Occhi - Su coniglio

Risultato: Modesta irritazione agli occhi - 24 h

#### **Sensibilizzazione respiratoria o cutanea**

Nessun dato disponibile

#### **Mutagenicità delle cellule germinali**

Nessun dato disponibile

#### **Cancerogenicità**

Nessun dato disponibile

IARC: Nessun componente di questo prodotto presente a livelli maggiori o uguali allo 0.1% è identificato come cancerogeno conosciuto o previsto dallo IARC.

#### **Tossicità riproduttiva**

Nessun dato disponibile

#### **Tossicità specifica per organi bersaglio - esposizione singola**

Inalazione - Può irritare le vie respiratorie.

#### **Tossicità specifica per organi bersaglio - esposizione ripetuta**

Nessun dato disponibile

#### **Pericolo in caso di aspirazione**

Nessun dato disponibile

#### **ulteriori informazioni**

RTECS: nessun dato disponibile

Al meglio della nostra conoscenza, le proprietà chimiche, fisiche e tossicologiche non sono state oggetto di studi approfonditi.

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## SEZIONE 12: informazioni ecologiche

### 12.1 Tossicità

Tossicità per i pesci	CL50 - Leuciscus idus (Leucisco dorato) - 17,1 mg/l - 96 h
	NOEC - Leuciscus idus (Leucisco dorato) - 14 mg/l - 96 h
Tossicità per la daphnia e per altri invertebrati acquatici	Immobilizzazione CE50 - Daphnia magna (Pulce d'acqua grande) - 39 mg/l - 48 h

### 12.2 Persistenza e degradabilità

Biodegradabilità	Risultato: - Rapidamente biodegradabile. (OECD TG 301 C)
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### 12.3 Potenziale di bioaccumulo

### 12.4 Mobilità nel suolo

Nessun dato disponibile

### 12.5 Risultati della valutazione PBT e vPvB

Questa sostanza/miscela non contiene componenti considerati sia persistenti, bioaccumulabili che tossici (PBT), oppure molto persistenti e molto bioaccumulabili (vPvB) a concentrazioni di 0.1% o superiori.

### 12.6 Altri effetti avversi

Nocivo per gli organismi acquatici.

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## SEZIONE 13: considerazioni sullo smaltimento

### 13.1 Metodi di trattamento dei rifiuti

#### Prodotto

Il presente prodotto combustibile può venire bruciato in inceneritore per prodotti chimici dotato di sistema di postcombustione e di abbattitore. Conferire le soluzioni non riciclabili e le eccedenze ad una società di smaltimento rifiuti autorizzata.

#### Contenitori contaminati

Smaltire come prodotto inutilizzato.

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## SEZIONE 14: informazioni sul trasporto

### 14.1 Numero ONU

ADR/RID: -	IMDG: -	IATA: -
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### 14.2 Nome di spedizione dell'ONU

ADR/RID:	Merci non pericolose
IMDG:	Not dangerous goods
IATA:	Not dangerous goods

### 14.3 Classi di pericolo connesso al trasporto

ADR/RID: -	IMDG: -	IATA: -
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#### 14.4 Gruppo d'imballaggio

ADR/RID: -

IMDG: -

IATA: -

#### 14.5 Pericoli per l'ambiente

ADR/RID: no

IMDG Inquinante marino: no

IATA: no

#### 14.6 Precauzioni speciali per gli utilizzatori

Nessun dato disponibile

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### SEZIONE 15: informazioni sulla regolamentazione

#### 15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela

Questa scheda di sicurezza rispetta le prescrizioni del Regolamento (CE) Num. 1907/2006.

#### 15.2 Valutazione della sicurezza chimica

Per questo prodotto non è stata effettuata una valutazione della sicurezza chimica.

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### SEZIONE 16: altre informazioni

#### Testo completo delle indicazioni di pericolo (H) citate alle sezioni 2 - 3.

H315	Provoca irritazione cutanea.
H319	Provoca grave irritazione oculare.
H332	Nocivo se inalato.
H335	Può irritare le vie respiratorie.

#### Ulteriori informazioni

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## 2-ETHYLHEXANOL

2-Ethyl-1-hexanol

2-Ethylhexyl Alcohol

Isooctanol

Octyl Alcohol



### Description

A clear, high-boiling point and low volatility solvent with a characteristic odor. It is miscible with most organic solvents but has very limited miscibility with water.

### Typical Physical Properties

These properties are typical but do not constitute specifications.

Molecular Weight	130.23
Relative Evaporation Rate nBuAc=1	<0.01
Vapor Pressure at 20°C, mmHg	0.06
Density at 20°C lb/gal	6.94
Specific Gravity at 20/20°C	0.833
Viscosity at 20°C cP	10.3
Surface Tension	
(dynes/cm at 20°C)	26.9
(dynes/cm at 25°C)	-
Hansen Solubility Parameters	
Total	9.9
Non-Polar	7.8
Polar	1.6
Hydrogen Bonding	5.8
Boiling Point, °C at 760mm Hg	184.6
Solubility at 20°C	
%Wt In Water	0.07
%Wt Water in	2.6
Closed Cup Flash Point °F	162
SARA 313 (see note 1†)	N
Hazardous Air Pollutant (see note 2††)	N

† Note 1: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III Section 313

†† Note 2: Hazardous Air Pollutants listed under Title III of the Clean Air Act

### Classification/Registry Numbers

CAS Number	104-76-7
EINECS	203-234-3

## Features

- Readily forms esters with various acids
- Very limited miscibility with water
- Low volatility solvent
- Enhances flow and gloss in baking finishes
- Non-HAP (Hazardous Air Pollutant) Solvent

## Applications

- Manufacture of low volatility esters (for example, dioctylphthalate)
- Low volatility solvent (for resins, animal fats, waxes, vegetable oils and petroleum derivatives)
- Coatings
- Ethoxylates
- Herbicides
- Extractant production (heavy metals)

## How supplied

- Bulk
- Tank Truck
- Tank Cars
- Marine Vessels

Note: Consult the appropriate Material Safety Data Sheet for safety and handling guidelines for this product.

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