

Ethyl Hexanol

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 5-9-2011

Revision date: 20-6-2018

Supersedes: 14-5-2018

Version: 3.5

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

1.1. Product identifier

Product form : Substance
 Trade name : Ethyl Hexanol
 EC-No. : 203-234-3
 CAS-No. : 104-76-7
 REACH registration No : 01-2119487289-20-XXXX
 KH product code : 100118
 Type of product : Pure substance
 Formula : C₈H₁₈O
 Synonyms : 1-hexanol, 2-ethyl- / 2-EH (=2-ethyl hexanol) / 2-EH alcohol / 2-ethyl 2-hexan-1-ol / 2-ethyl hexanol / 2-ethyl hexyl alcohol / 2-ethylhexan-1-ol / 2-Ethylhexanol-1 / 2-Ethyl-n-hexylalkohol / 2-Ethyl-normal-hexylalkohol / 2-etyyliheksan-1-oli / alcohol C8 / corexit 8814 / EH (= Ethylhexanol) / ethylhexanol / Ethylhexylalkohol / EXXAL 8 / FORMULA No 91270 / Isooctan-1-ol / isooctanol (=2-ethyl-1-hexanol) / isooctyl alcohol (=2-ethyl-1-hexanol) / octyl alcohol (=2-ethyl-1-hexanol) / octyl alcohol(2-EH)(=2-ethyl-1-hexanol)
 BIG no : 10944

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use
 Use of the substance/mixture : Solvent
 Chemical intermediate
 Softener
 Wetting agent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

KH Chemicals B.V.
 Scheepmakerij 260
 3331MB Zwijndrecht - The Netherlands
 T +31 85 6255255
msds@khchemicals.com - www.khchemicals.com

1.4. Emergency telephone number

Emergency number : +31 85 6255222 (+ Please see section 16 - for professionals only)

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhal.), Category 4 H332
 Skin corrosion/irritation, Category 2 H315
 Serious eye damage/eye irritation, Category 2 H319
 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

CLP Signal word

: Warning

Hazard statements (CLP)

: H332 - Harmful if inhaled.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Precautionary statements (CLP)

: P264 - Wash hands thoroughly after handling.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
bis(2-ethylhexyl)adipate	(CAS-No.) 104-76-7 (EC-No.) 203-234-3 (REACH-no) 01-2119487289-20-XXXX	100	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact

: Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

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First-aid measures after ingestion : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not give milk/oil to drink. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects after inhalation : Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Coughing. Respiratory difficulties. ON CONTINUOUS EXPOSURE/CONTACT: Dizziness. Headache. Feeling of weakness. Gastrointestinal complaints.

Symptoms/effects after skin contact : Tingling/irritation of the skin.

Symptoms/effects after eye contact : Irritation of the eye tissue.

Symptoms/effects after ingestion : AFTER INGESTION OF HIGH QUANTITIES: Nausea. Vomiting. Gastrointestinal complaints. Diarrhoea. Narcosis. Disturbances of consciousness.

Chronic symptoms : No effects known.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (not alcohol-resistant).

Unsuitable extinguishing media : Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Material presenting a fire hazard. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard. Reactions involving a fire hazard: see "Reactivity Hazard".

Hazardous decomposition products in case of fire : Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Protective clothing.

Emergency procedures : Mark the danger area. No naked flames. Wash contaminated clothes.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

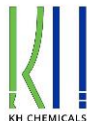
6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

Methods for cleaning up : Take up liquid spill into a non combustible material e.g.: sand, earth, vermiculite, kieselguhr, powdered limestone. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Use earthed equipment. Keep away from naked flames/heat. At temperature > flashpoint: use spark-/explosionproof appliances. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use.

Hygiene measures

: Observe normal hygiene standards. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Heat and ignition sources

: KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage

: KEEP SUBSTANCE AWAY FROM: oxidizing agents.

Storage area

: Store in a cool area. Ventilation at floor level. Provide for a tub to collect spills. Provide the tank with earthing. Store at ambient temperature. Meet the legal requirements.

Special rules on packaging

: SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials

: SUITABLE MATERIAL: stainless steel. carbon steel. aluminium. polypropylene. plastics.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethyl Hexanol (104-76-7)

EU	IOELV TWA (ppm)	1 ppm
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Ethyl Hexanol (104-76-7)

DNEL/DMEL (Workers)

Acute - local effects, inhalation	53,2 mg/m ³
Long-term - systemic effects, dermal	23 mg/kg bw/day
Long-term - systemic effects, inhalation	12,8 mg/m ³
Long-term - local effects, inhalation	53,2 mg/m ³

DNEL/DMEL (General population)

Acute - local effects, inhalation	26,6 mg/m ³
Long-term - systemic effects, oral	1,1 mg/kg bw/day
Long-term - systemic effects, inhalation	2,3 mg/m ³
Long-term - systemic effects, dermal	11,4 mg/kg bw/day
Long-term - local effects, inhalation	26,6 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	0,017 mg/l
PNEC aqua (marine water)	0,0017 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	0,28 mg/kg dwt
PNEC sediment (marine water)	0,028 mg/kg dwt

PNEC (Soil)

PNEC soil	0,047 mg/kg dwt
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PNEC (Oral)

PNEC oral (secondary poisoning)	55 mg/kg food
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PNEC (STP)

PNEC sewage treatment plant	10 mg/l
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8.2. Exposure controls

Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: butyl rubber. neoprene. viton. GIVE GOOD RESISTANCE: PVA. GIVE POOR RESISTANCE: natural rubber

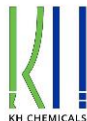
Hand protection:

Gloves

Eye protection:

Face shield

Skin and body protection:



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Protective clothing

Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 130,23 g/mol
Colour	: Colourless.
Odour	: Sweet odour. Stuffy odour. Oil-like odour.
Odour threshold	: 0,075 ppm 0,4 mg/m ³
pH	: 7 (0.1 %)
Relative evaporation rate (butylacetate=1)	: < 1
Relative evaporation rate (ether=1)	: 690
Melting point	: -89 °C (Test data)
Freezing point	: No data available
Boiling point	: 184 - 186 °C (1013 hPa, Test data)
Flash point	: 75 °C (1013 hPa)
Critical temperature	: 340 °C
Auto-ignition temperature	: > 231 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 0,07 hPa (20 °C)
Vapour pressure at 50 °C	: 2,9 hPa
Critical pressure	: 27600 hPa
Relative vapour density at 20 °C	: 4,5
Relative density	: 0,83 (20 °C, Test data)
Density	: 834 kg/m ³
Solubility	: Insoluble in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Water: 0,9 g/l (20 °C, Test data)
Log Pow	: 2,9 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 9,7 mPa.s (20 °C)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1 - 12,7 vol % 98 - 690 g/m ³
Lower explosive limit (LEL)	: 1 vol %
Upper explosive limit (UEL)	: 12,7 vol %

9.2. Other information

Saturation concentration	: 0,36 g/m ³
VOC content	: 100 %
Other properties	: Gas/vapour heavier than air at 20°C. Clear. Slightly volatile. Substance has neutral reaction. May generate electrostatic charges.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with (strong) oxidizers: (increased) risk of fire.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
 Acute toxicity (dermal) : Not classified
 Acute toxicity (inhalation) : Inhalation: Harmful if inhaled.

Ethyl Hexanol (104-76-7)

LD50 oral rat	3290 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male, Experimental value)
LD50 dermal rat	> 3000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, Rat, Male/female, Experimental value)
LC50 inhalation rat (mg/l)	0,89 - 5,3 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value)

Skin corrosion/irritation : Causes skin irritation.
 pH: 7 (0.1 %)
 Serious eye damage/irritation : Causes serious eye irritation.
 pH: 7 (0.1 %)
 Respiratory or skin sensitisation : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified
 STOT-single exposure : May cause respiratory irritation.
 STOT-repeated exposure : Not classified
 Aspiration hazard : Not classified

Ethyl Hexanol (104-76-7)

Viscosity, kinematic	11,631 mm ² /s
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Potential adverse human health effects and symptoms : Practically non-toxic if swallowed (LD50 oral 2000/5000 mg/kg). Causes skin irritation. Practically non-toxic in contact with skin (LD50 skin > 2000 mg/kg). Harmful if inhaled. May cause respiratory irritation. Causes serious eye irritation. Caution! Substance is absorbed through the skin.

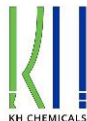
SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Directive 67/548/EEC. Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
 Ecology - air : Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
 Ecology - water : Harmful to crustacea. Harmful to fishes. Harmful to algae. Slightly harmful to bacteria.
 Acute aquatic toxicity : Not classified
 Chronic aquatic toxicity : Not classified

Ethyl Hexanol (104-76-7)

LC50 fish 1	17,1 mg/l (EU Method C.1, 96 h, Leuciscus idus, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	39 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h algae (1)	16,6 mg/l (EU Method C.3, Desmodesmus subspicatus, Static system, Fresh water,



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Experimental value)

12.2. Persistence and degradability

Ethyl Hexanol (104-76-7)

Persistence and degradability Biodegradable in the soil. Readily biodegradable in water.

12.3. Bioaccumulative potential

Ethyl Hexanol (104-76-7)

BCF other aquatic organisms 1 25,33 (BCFWIN, Calculated value)

Log Pow 2,9 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)

Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Ethyl Hexanol (104-76-7)

Surface tension 0,000047 N/m (20 °C, 0.81 g/l)

Ecology - soil Highly mobile in soil.

12.5. Results of PBT and vPvB assessment

Ethyl Hexanol (104-76-7)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : LWCA (the Netherlands): KGA category 03.

Product/Packaging disposal recommendations : Do not discharge into surface water. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Additional information : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

European List of Waste (LoW) code : 15 01 10* - packaging containing residues of or contaminated by dangerous substances
07 01 04* - other organic solvents, washing liquids and mother liquors

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

UN-No. (ADN) : 9003

UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Ethyl Hexanol

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

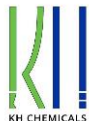
Proper Shipping Name (ADN) : Substances with a flash-point above 60 °C and not more than 100 °C

Proper Shipping Name (RID) : Not applicable

Transport document description (ADN) : UN 9003 Substances with a flash-point above 60 °C and not more than 100 °C, 9

14.3. Transport hazard class(es)

ADR



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Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : 9

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Transport regulations (ADR) : Not subject

- Transport by sea

Transport regulations (IMDG) : Not subject

- Air transport

Transport regulations (IATA) : Not subject

- Inland waterway transport

Carriage permitted (ADN) : T

- Rail transport

Transport regulations (RID) : Not subject

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

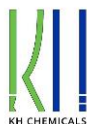
Ethyl Hexanol is not on the REACH Candidate List

Ethyl Hexanol is not on the REACH Annex XIV List

VOC content : 100 %

15.1.2. National regulations

Germany



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Reference to AwSV : Water hazard class (WGK) 2, significant hazard to waters (Classification according to AwSV; ID No. 134)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

TA Luft : 5.2.5 Organic Substances

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Emergency Numbers

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