

SAFETY DATA SHEET

according to REACH Regulation (EC) No. 1907/2006, as amended by UK REACH Regulations SI 2019/758



2-Ethylhexanal
10030

Version / Revision
Supersedes Version

6
5.00***

Revision Date
Issuing date

26-Oct-2022
26-Oct-2022

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

1.1. Product identifier

Identification of the substance/preparation

2-Ethylhexanal

CAS-No
EC No.

123-05-7
204-596-5

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

Identified uses
Uses advised against

Transported isolated intermediate (1907/2006)
None

1.3. Details of the supplier of the safety data sheet

Company/Undertaking
Identification

OQ Chemicals GmbH
Rheinpromenade 4A
D-40789 Monheim
Germany

Product Information

Product Stewardship
FAX: +49 (0)208 693 2053
email: sc.psq@oq.com

1.4. Emergency telephone number

Emergency telephone number +44 (0) 1235 239 670 (UK)
available 24/7

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This substance is classified based on Directive 1272/2008/EC and its amendments (CLP Regulation)

Flammable liquid Category 3, H226
Skin sensitization Category 1B, H317
Reproductive toxicity Category 2, H361

Additional information

For full text of Hazard- and EU Hazard-statements see SECTION 16.

2.2. Label elements

Labelling according to Regulation 1272/2008/EC and its amendments (CLP Regulation).

Hazard pictograms

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Signal word

Warning

Hazard statements

H226: Flammable liquid and vapour.
H317: May cause an allergic skin reaction.
H361: Suspected of damaging fertility or the unborn child.

Precautionary statements

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing gas/mist/vapours.
P281: Use personal protective equipment as required
P363: Wash contaminated clothing before reuse.
P403 + P235: Store in a well ventilated place. Keep cool.

2.3. Other hazards

Vapours may form explosive mixture with air
Components of the product may be absorbed into the body by inhalation and ingestion

PBT and vPvB assessment Not required

Endocrine disrupting assessments The substance is not listed on the candidate list according to Art. 59(1), REACH. The substance was not assessed as having endocrine disrupting properties according to regulation 2017/2100/EU or 2018/605/EU.

SECTION 3: Composition / information on ingredients

3.1. Substances

Component	CAS-No	1272/2008/EC	Concentration (%)
2-Ethylhexanal	123-05-7	Flam. Liq. 3; H226 Skin Sens. 1B; H317 Repr. 2; H361	> 98,5

For full text of Hazard- and EU Hazard-statements see SECTION 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

Skin

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

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Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Obtain medical attention.

Ingestion

Do not induce vomiting without medical advice. Call a physician immediately.

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

Main symptoms

shortness of breath, abdominal pain, vomiting, nausea, cough.

Special hazard

Lung oedema, Lung irritation, Dermatitis.

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

General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically. In case of lung irritation, first treatment with cortisone spray.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water spray

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO₂)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapours are heavier than air and may spread along floors

Vapours may form explosive mixture with air

5.3. Advice for firefighters

Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

Precautions for firefighting

Cool containers / tanks with water spray. Dike and collect / water used to fight fire. Keep people away from and upwind of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

For emergency responders: Personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

6.3. Methods and material for containment and cleaning up

Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

Methods for cleaning up

Soak up with inert absorbent material. DO NOT use combustible materials such as sawdust. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4. Reference to other sections

For personal protective equipment see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms. Refill and handle product only in closed system.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Advice on the protection of the environment

See Section 8: Environmental exposure controls.

Incompatible products

acids and bases
amines
oxidizing agents
oxygen
reducing agents

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapours may form explosive mixture with air. The product will oxidize in air and release heat. The pressure in sealed containers can increase under the influence of heat.

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Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Handle under nitrogen, protect from moisture. Oxidization creates acids and peroxides, that may lead to corrosive damages in storage and handling equipment.

Suitable material

stainless steel, aluminium

Unsuitable material

mild steel, iron

Temperature class

T4

7.3. Specific end use(s)

Transported isolated intermediate (1907/2006)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits European Union

No exposure limits established

Exposure limits UK

No exposure limits established.

DNEL & PNEC

This substance is registered as intermediate under strictly controlled conditions.

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Workers

DN(M)EL - long-term exposure - systemic effects - Inhalation	1,53 mg/m ³
DN(M)EL - long-term exposure - systemic effects - Dermal	3,62 mg/kg bw/day

General population

DN(M)EL - long-term exposure - systemic effects - Inhalation	0,64 mg/m ³
DN(M)EL - long-term exposure - systemic effects - Dermal	0,37 mg/kg bw/day
DN(M)EL - long-term exposure - systemic effects - Oral	0,18 mg/kg bw/day

8.2. Exposure controls

Special adaptations (REACH)

The substance has been registered as an transported isolated intermediate and must be handled throughout its life cycle under strictly controlled conditions in accordance with Article 18.4, REACH.

Appropriate Engineering controls

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General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

Personal protective equipment

General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

Equipment should conform to EN 166

Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

Suitable material	nitrile rubber
Evaluation	according to EN 374: level 4
Glove thickness	approx 0,55 mm
Break through time	approx 80 min
Suitable material	polyvinylchloride
Evaluation	Information derived from practical experience
Glove thickness	approx 0.8 mm

Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

Respiratory protection

Respirator with A filter. Full mask with above mentioned filter according to producers using requirements or self-contained breathing apparatus. Equipment should conform to EN 136 or EN 140 and EN 143.

Environmental exposure controls

Use product only in closed system. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

Additional advice

Further details on substance data can be found in the registration dossier under the following link:
<http://echa.europa.eu/information-on-chemicals/registered-substances>.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid***
Colour	colourless

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Odour	strong				
Odour threshold	No data available				
Melting point/freezing point	< -90 °C				
Method	DIN ISO 3016				
Boiling point or initial boiling point and boiling range	152 °C @ 1013 hPa				
Method	OECD 103				
Flammability	Ignitable				
Lower explosion limit	0,9 Vol %				
Upper explosion limit	7,2 Vol %				
Flash point	47 °C @ 1013 hPa				
Method	ISO 2719				
Autoignition temperature	180 °C @ 985 hPa				
Method	DIN 51794				
Decomposition temperature	No data available				
pH	No data available				
Kinematic Viscosity	1,161 mm ² /s @ 20 °C***				
Method	DIN 51562***				
Solubility	0,8 g/l @ 20 °C, in water, OECD 105				
Partition coefficient n-octanol/water (log value)	3,6 @ 25 °C (77 °F) OECD 117				
Vapour pressure					
Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
2	0,2	0,002	18,5	65,3	
2,8	0,28	0,003	23,4	74,1	
Density and/or relative density					
Values	@ °C	@ °F	Method		
0,819	20	68	DIN 51757		
Relative vapour density	4,4 (Air = 1) @ 20 °C (68 °F)				
Particle characteristics	not applicable				

9.2. Other information

Explosive properties	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties
Oxidizing properties	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties
Molecular weight	128,22
Molecular formula	C ₈ H ₁₆ O
Refractive index	1,416 @ 20 °C
Surface tension	47,1 mN/m (0,73 g/l @ 20°C (68°F)), OECD 115
Evaporation rate	No data available

SECTION 10: Stability and Reactivity

10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

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Hazardous reactions occur in the presence of acids, base or oxidizing agents. This reaction is exothermic and may create heat. When finely distributed, self-ignition is possible. May form explosive peroxides.

10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

10.5. Incompatible materials

bases, amines, acids, oxidizing agents, oxygen, reducing agents.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Likely routes of exposure Ingestion, Inhalation, Eye contact, Skin contact

Acute toxicity				
2-Ethylhexanal (123-05-7)				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	2600 mg/kg	rat, male/female	OECD 401
Dermal	LD50	> 16440 mg/kg	rat, male/female	
Inhalative	LC50	> 6,83 mg/l (4h)	rat, male/female	OECD 403

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Assessment

Based on available data, the classification criteria are not met for:

Acute oral toxicity

Acute dermal toxicity

Acute inhalation toxicity

Irritation and corrosion				
2-Ethylhexanal (123-05-7)				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	irritating	OECD 404	
Eyes	rabbit	No eye irritation	OECD 405	

2-Ethylhexanal, CAS: 123-05-7

Assessment

The available data lead to the classification given in section 2

For respiratory irritation, no data are available

Sensitization				
2-Ethylhexanal (123-05-7)				
Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig female	sensitizing	OECD 406	read across

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Assessment

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The available data lead to a classification as skin sensitizer (see section 2)
For respiratory sensitization, no data are available

Subacute, subchronic and prolonged toxicity

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Type	Dose	Species	Method	
Subacute toxicity	NOAEL: 0,54 mg/l	rat, male/female	OECD 412	Inhalation

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Assessment

Based on available data, the classification criteria are not met for:
STOT RE

Carcinogenicity, Mutagenicity, Reproductive toxicity

2-Ethylhexanal (123-05-7)

Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium	negative	Ames test	
Mutagenicity		mouse male/female	negative	OECD 474	Oral
Reproductive toxicity	NOAEL 300 mg/kg/d	rat, parental		Oral	read across
Reproductive toxicity	NOAEL 100 mg/kg/d	rat, 1. Generation, male/female		Oral	read across
Developmental Toxicity	NOAEL 300,9 mg/kg/d	rat		OECD 414, Oral	Developmental toxicity Maternal toxicity

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CMR Classification

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

Evaluation

In vitro tests did not show mutagenic effects
No developmental effects in the absence of maternal toxicity

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Main symptoms

shortness of breath, abdominal pain, vomiting, nausea, cough.

11.2. Information on other hazards

Endocrine disrupting properties

The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3.

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Other adverse effects

Components of the product may be absorbed into the body by inhalation and ingestion.

Note

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

SECTION 12: Ecological information

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12.1. Toxicity

Acute aquatic toxicity			
2-Ethylhexanal (123-05-7)			
Species	Exposure time	Dose	Method
Oncorhynchus mykiss (rainbow trout)	96h	LC50: 5,5 mg/l	OECD 203
Activated sludge (domestic)	30 min	EC50: 73,6 - 507,6 mg/l	ISO 8192
Daphnia magna (Water flea)	48h	EC50: 4,7 mg/l	OECD 202
Pseudokirchneriella subcapitata	72h	EC50: 6,9 mg/l (Growth rate)	OECD 201

12.2. Persistence and degradability

2-Ethylhexanal, CAS: 123-05-7

Biodegradation

71,8 % (28 d), activated sludge (domestic), aerobic, OECD 301 F.

Abiotic Degradation		
2-Ethylhexanal (123-05-7)		
Type	Result	Method
Hydrolysis	No data available	
Photolysis	No data available	

12.3. Bioaccumulative potential

2-Ethylhexanal (123-05-7)		
Type	Result	Method
log Pow	3,6 @ 25 °C (77 °F)	OECD 107
BCF	No data available	

12.4. Mobility in soil

2-Ethylhexanal (123-05-7)		
Type	Result	Method
Surface tension	47,1 mN/m (0,73 g/l @ 20°C (68°F))	OECD 115
Adsorption/Desorption	no data available	
Distribution to environmental compartments	no data available	

12.5. Results of PBT and vPvB assessment

2-Ethylhexanal, CAS: 123-05-7

PBT and vPvB assessment

Not required

12.6. Endocrine disrupting properties

The substance has not been identified as having endocrine disrupting properties in accordance with section 2.3.

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12.7. Other adverse effects

2-Ethylhexanal, CAS: 123-05-7

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Hazardous waste according to European Waste Catalogue (EWC)

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

ADR/RID

14.1. UN number or ID number	UN 1191
14.2. UN proper shipping name	Octyl aldehydes
14.3. Transport hazard class(es)	3
14.4. Packing group	III
14.5. Environmental hazards	no
14.6. Special precautions for user	
ADR Tunnel restriction code	(D/E)
Classification Code	F1
Hazard Number	30

ADN

ADN Container

14.1. UN number or ID number	UN 1191
14.2. UN proper shipping name	Octyl aldehydes
14.3. Transport hazard class(es)	3
14.4. Packing group	III
14.5. Environmental hazards	no
14.6. Special precautions for user	
Classification Code	F1
Hazard Number	30

ADN

ADN Tanker

14.1. UN number or ID number	UN 1191
14.2. UN proper shipping name	Octyl aldehydes
14.3. Transport hazard class(es)	3

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Subsidiary Risk F
14.4. Packing group III
14.5. Environmental hazards no
14.6. Special precautions for user
Classification Code F1

ICAO-TI / IATA-DGR

14.1. UN number or ID number UN 1191
14.2. UN proper shipping name Octyl aldehydes
14.3. Transport hazard class(es) 3
14.4. Packing group III
14.5. Environmental hazards no
14.6. Special precautions for user no data available

IMDG

14.1. UN number or ID number UN 1191
14.2. UN proper shipping name Octyl aldehydes
14.3. Transport hazard class(es) 3
14.4. Packing group III
14.5. Environmental hazards no
14.6. Special precautions for user
EmS F-E, S-D
14.7. Maritime transport in bulk according to IMO instruments ***
Product name Octyl aldehydes
Ship type 3
Pollution category Y
Hazard class S/P***

SECTION 15: Regulatory information

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

Regulation 1272/2008, Annex VI

not listed

DI 2012/18/EU (Seveso III)

Category

Annex I, part 1:
P5a - c; depending on conditions

DI 1999/13/EC (VOC Guideline)

Component	Status
2-Ethylhexanal CAS: 123-05-7	regulated

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 No. 758

Component	Status
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2-Ethylhexanal CAS: 123-05-7	The substance will not be pre-registered
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For details and further information please refer to the original regulation.

International Inventories

2-Ethylhexanal, CAS: 123-05-7

AICS (AU)
DSL (CA)
IECSC (CN)
EC-No. 2045965 (EU)
ENCS (2)-494 (JP)
ISHL (2)-494 (JP)
ISHL 2-(8)-34 (JP)
INSQ (MX)
PICCS (PH)
TSCA (US)
NZIoC-NZ with note***
TCSI (TW)

National regulatory information Great Britain

Releases to air (Pollution Inventory Substances)

not subject

Releases to water (Pollution Inventory Substances)

not subject

Releases to sewer (Pollution Inventory Substances)

not subject

For details and further information please refer to the original regulation

15.2. Chemical safety assessment

The Chemical Safety Report (CSR) is not required.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H226: Flammable liquid and vapour.

H317: May cause an allergic skin reaction.

H361: Suspected of damaging fertility or the unborn child.

Abbreviations

A table of terms and abbreviations can be found under the following link:

http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf

Training advice

For effective first-aid, special training / education is needed.

Sources of key data used to compile the datasheet

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Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

Further information for the safety data sheet

Changes against the previous version are marked by ***. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage (www.chemicals.oq.com).

The annex is not required because the substance is registered as an intermediate under REACH

Disclaimer

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. OQ Chemicals makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

End of Safety Data Sheet