SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Revision Date 10.07.2019

Version 7.10

SECTION 1. Identification of the substance/mixture and of the company/undertaking **1.1** Product identifier

Catalogue No. Product name	800835 2-Ethylhexyl acrylate (stabilised with hydroquinone
REACH Registration Number	monomethyl ether) for synthesis A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006,
CAS-No.	the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
	uses of the substance or mixture and uses advised against
Identified uses	Chemical for synthesis

For additional information on uses please refer to the Mercl	ί.
Chemicals portal (www.merckgroup.com).	

1.3 Details of the supplier of the safety data sheet

Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0
Responsible Department	LS-QHC * e-mail: prodsafe@merckgroup.com

1.4 Emergency telephone Please contact the regional company representation in your country.

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2, H315 Skin sensitisation, Category 1, H317 Specific target organ toxicity - single exposure, Category 3, Respiratory system, H335 For the full text of the H-Statements mentioned in this Section, see Section 16.



Page 1 of 12

Catalogue No. Product name 800835 2-Ethylhexyl acrylate (stabilised with hydroquinone monomethyl ether) for synthesis

2.2 Label elements Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word Warning

Hazard statements H315 Causes skin irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

Precautionary statements Prevention P280 Wear protective gloves. Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

Reduced labelling (\leq 125 ml)



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

Precautionary statements P280 Wear protective gloves. P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

Index-No. 607-107-00-7

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients 3.1 Substance

Formula	CH2=CHCOOCH2CH(C2H5)(CH2)3CH3 (Hill)	C11H20O2
Index-No.	607-107-00-7	

Page 2 of 12

The life science business of Merck operates as MilliporeSigma in the US and Canada



Catalogue No. Product name	800835 2-Ethylhexyl acrylate (stabilised with hydroquinone monomethyl ether) for synthesis
	203-080-7
Molar mass	184,27 g/mol
Hazardous components (R Chemical name (Concentration	REGULATION (EC) No 1272/2008)
CAS-No. Registration number	Classification
(2-ethylhexyl)acrylate (>= 8	0 % - <= 100 %)
103-11-7 *)	Skin irritation, Category 2, H315 Skin sensitisation, Category 1, H317 Specific target organ toxicity - single exposure, Category 3, H335
hydroquinone monomethyl e	ther (>= 1 % - < 2,5 %)
150-76-5 *)	Acute toxicity, Category 4, H302 Eye irritation, Category 2, H319 Skin sensitisation, Category 1, H317 Reproductive toxicity, Category 2, H361d Long-term (chronic) aquatic hazard, Category 3, H412
	able for this substance as the substance or its use are exempted from registration ion (EC) No 1907/2006, the annual tonnage does not require a registration or the egistration deadline.
For the full text of the H-Stat	ements mentioned in this Section, see Section 16.
3.2 Mixture Not applicable	
SECTION 4. First aid measures 4.1 Description of first aid m After inhalation: fresh air.	-

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

After eye contact: rinse out with plenty of water. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

- **4.2 Most important symptoms and effects, both acute and delayed** irritant effects, Allergic reactions, Cough, Shortness of breath
- **4.3 Indication of any immediate medical attention and special treatment needed** No information available.

Page 3 of 12

The life science business of Merck operates as MilliporeSigma in the US and Canada

Merck

Catalogue No. Product name 800835 2-Ethylhexyl acrylate (stabilised with hydroquinone monomethyl ether) for synthesis

SECTION 5. Firefighting measures

5.1 Extinguishing media Suitable extinguishing media Carbon dioxide (CO2), Foam, Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible.

Explosive decomposition possible on heating. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Page 4 of 12





Catalogue No. Product name

800835 2-Ethylhexyl acrylate (stabilised with hydroquinone monomethyl ether) for synthesis

Advice on safe handling Observe label precautions.

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers In V₂A/V₄A-steel containers. Fill containers only to 80% to maintain stabiliser effect. Air contact necessary.

Storage conditions Protected from light.

Tightly closed.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection Safety glasses

Hand protection

full contact:

Glove material: Glove thickness: Break through time: > 480 min

Nitrile rubber 0,40 mm

The life science business of Merck operates as MilliporeSigma in the US and Canada



Page 5 of 12

Catalogue No.	800835
Product name	2-Ethylhexyl acrylate (stabilised with hydroquinone monomethyl
	ether) for synthesis

splash contact:

Glove material:	butyl-rubber
Glove thickness:	0,7 mm
Break through time:	> 30 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 730 Camatril® - Velours (full contact), KCL 898 Butoject® (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapours/aerosols are generated.

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	sweet
Odour Threshold	No information available.
рН	No information available.
Melting point	-90 °C
Boiling point/boiling range	ca. 229 °C at 1.013 hPa
Flash point	86 °C Method: DIN 51755 Part 1



Catalogue No. Product name	800835 2-Ethylhexyl acrylate (stabilised with hydroquinone monomethyl ether) for synthesis
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	0,9 %(V)
Upper explosion limit	6,0 %(V)
Vapour pressure	0,12 hPa at 20 °C
Relative vapour density	6,35
Density	0,887 g/cm3 at 20 °C
Relative density	No information available.
Water solubility	0,1 g/l at 25 °C
Partition coefficient: n- octanol/water	log Pow: 4,64 (25 °C) OECD Test Guideline 107 Potential bioaccumulation
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	1,54 mPa.s at 25 °C
Explosive properties	Not classified as explosive.
Oxidizing properties	none
9.2 Other data	
Ignition temperature	230 °C Method: DIN 51794

SECTION 10. Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

heat-sensitive Sensitivity to light

The life science business of Merck operates as MilliporeSigma in the US and Canada

Page 7 of 12



Catalogue No. Product name

In case of decomposition in closed containers and tubes risk of bursting due to buildup of overpressure.

Stabilizer hydroquinone monomethyl ether

10.3 Possibility of hazardous reactions

Violent reactions possible with:

Amines, peroxi compounds, polymerisation initiators, Strong oxidizing agents, Reducing agents, mercaptans, azides, Ether, Ketones, Aldehydes, nitrates, nitrites, Strong bases, Acid anhydrides, acid halides, mineral acids, metallic salts

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

no information available

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity LD50 Rat: 4.435 mg/kg

(IUCLID)

Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Acute dermal toxicity LD50 Rabbit: 7.522 mg/kg (IUCLID)

Skin irritation Rabbit Result: Irritations

(IUCLID) Causes skin irritation. *Eye irritation* This information is not available.

Page 8 of 12



Catalogue No. Product name 800835 2-Ethylhexyl acrylate (stabilised with hydroquinone monomethyl ether) for synthesis

Sensitisation Patch test: human Result: positive

(IUCLID)

May cause an allergic skin reaction.

Germ cell mutagenicity Genotoxicity in vivo Chromosome aberration test Result: negative

(IUCLID)

Genotoxicity in vitro Ames test Result: negative

(IUCLID)

Carcinogenicity This information is not available.

Reproductive toxicity This information is not available.

Teratogenicity This information is not available.

Specific target organ toxicity - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure This information is not available.

Aspiration hazard This information is not available.

11.2 Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish LC50 Leuciscus idus (Golden orfe): 23 mg/l; 48 h (IUCLID) Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia magna (Water flea): 17 mg/l; 48 h (IUCLID) Toxicity to algae IC50 Desmodesmus subspicatus (green algae): 44 mg/l; 72 h (IUCLID)

Page 9 of 12



Catalogue No. Product name 800835 2-Ethylhexyl acrylate (stabilised with hydroquinone monomethyl ether) for synthesis

Toxicity to bacteria EC50 Pseudomonas putida: > 10.000 mg/l; 30 min DIN 38412 (as an emulsion) (IUCLID)

12.2 Persistence and degradability

Biodegradability 75 %; 15 d OECD Test Guideline 301C Readily biodegradable

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water log Pow: 4,64 (25 °C) OECD Test Guideline 107

Potential bioaccumulation

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Additional ecological information Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

Waste treatment methods See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information

Land transport	(ADR/RID)
----------------	-----------

14.1 - 14.6

Not classified as dangerous in the meaning of transport regulations.

Inland waterway transport (ADN)

Not relevant

Air transport (IATA) 14.1 - 14.6

Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG)



Catalogue No. Product name	800835 2-Ethylhexyl acrylate (stabilised with hydroquinone monomethyl ether) for synthesis
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
14.7 Transport in bulk Code Not relevant	according to Annex II of MARPOL 73/78 and the IBC
SECTION 15. Regulatory in 15.1 Safety, health and o substance or mixture EU regulations Major Accident Hazard Legislation	environmental regulations/legislation specific for the
Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at work.
Regulation (EC) No 1005 that deplete the ozone la	/2009 on substances not regulated yer
Regulation (EC) No 850/ European Parliament and April 2004 on persistent and amending Directive	l of the Council of 29 organic pollutants

Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).

National legislation Storage class 10 - 13

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

Page 11 of 12



Catalogue No. Product name 800835 2-Ethylhexyl acrylate (stabilised with hydroquinone monomethyl ether) for synthesis

SECTION 16. Other information

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Page 12 of 12

