

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Date of issue: 06.12.2016

Version 1.0

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

1.1 Product identifier

Catalogue No.	822000
Product name	1-Chlorooctadecane for synthesis
REACH Registration Number	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, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
CAS-No.	3386-33-2

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

Identified uses	Chemical for synthesis
	For additional information on uses please refer to the Merck Chemicals
	portal (www.merckgroup.com).

1.3 Details of the supplier of the safety data sheet

1	.4 Emergency telephone	Please contact the regional company representation in your country.	
	Responsible Department	LS-QHC * e-mail: prodsafe@merckgroup.com	
	Company	Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0	

SECTION 2. Hazards identification

number

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

Skin irritation, Category 2, H315 Chronic aquatic toxicity, Category 4, H413

For the full text of the H-Statements mentioned in this Section, see Section 16.

Catalogue No.822000Product name1-Chlorooctadecane for synthesis

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word Warning

Hazard statements

H315 Causes skin irritation.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements

Prevention

P273 Avoid release to the environment.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

Reduced labelling (<125 ml)

Hazard pictograms



Signal word Warning

Hazard statements H413 May cause long lasting harmful effects to aquatic life.

CAS-No. 3386-33-2

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

3.1 Substance

Catalogue No.	822000
Product name	1-Chlorooctadecane for synthesis

Formula	CH₃(CH₂)₁7Cl	C₁ଃH₃⁊CI (Hill)
EC-No.	222-207-7	
Molar mass	288,94 g/mol	

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical Nan	ne (Concentration)	
CAS-No.	Registration number	Classification
1-Chlorooctad	ecane <i>(<= 100 %)</i>	
3386-33-2	*)	
		Skin irritation, Category 2, H315

Chronic aquatic toxicity, Category 4, H413

*) 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, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Mixture

Not applicable

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

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

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

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

Catalogue No.822000Product name1-Chlorooctadecane for synthesis

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, Carbon dioxide (CO2), 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. 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. Fire may cause evolution of: Hydrogen chloride gas

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

Suppress (knock down) gases/vapours/mists with a water spray jet. 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. 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.

Catalogue No.822000Product name1-Chlorooctadecane for synthesis

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

Advice on safe handling Observe label precautions.

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

Storage conditions 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.

Catalogue No.822000Product name1-Chlorooctadecane for synthesis

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:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	> 480 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 741 Dermatril® L (full contact),

KCL 741 Dermatril® L (splash contact).

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

Other protective equipment protective clothing

Respiratory protection

required when vapours/aerosols are generated.

Recommended Filter type: filter ABEK

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

Catalogue No.	822000
Product name	1-Chlorooctadecane for synthesis
Form	viscous liquid
Colour	white
Odour	weakly aromatic
Odour Threshold	No information available.
рН	No information available.
Melting point/range	20 - 23 °C
Boiling point	No information available.
Flash point	110 °C at 1.013 hPa
	Method: closed cup
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	< 0,1 hPa at 25 °C
Relative vapour density	No information available.
Density	0,86 g/cm3 at 20 °C
Relative density	No information available.

Catalogue No. Product name	822000 1-Chlorooctadecane for synthesis	
Water solubility	at 20 °C insoluble	
Partition coefficient: n- octanol/water	log Pow: ca. 9,44 (20 °C) (calculated) (Lit.) Potential bioaccumulation	
Auto-ignition temperature	No information available.	
Decomposition temperature	> 300 °C	
Viscosity, dynamic	No information available.	
Explosive properties	Not classified as explosive.	
Oxidizing properties	none	
9.2 Other data Ignition temperature	320 °C	

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

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Catalogue No.822000Product name1-Chlorooctadecane for synthesis

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity LD50 Rat: > 2.000 mg/kg OECD Test Guideline 401

Acute inhalation toxicity

This information is not available.

Acute dermal toxicity

This information is not available.

Skin irritation

Rabbit Result: irritating OECD Test Guideline 404 Causes skin irritation.

Eye irritation Rabbit Result: No eye irritation OECD Test Guideline 405

Sensitisation This information is not available.

Germ cell mutagenicity

This information is not available.

Carcinogenicity

This information is not available.

Reproductive toxicity This information is not available.

Teratogenicity This information is not available.

Catalogue No.822000Product name1-Chlorooctadecane for synthesis

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

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 static test LC50 Danio rerio (zebra fish): > 1.000 mg/l; 96 h OECD Test Guideline 203

Toxicity to bacteria

Respiration inhibition EC50 activated sludge: > 1.000 mg/l; 3 h

OECD Test Guideline 209

12.2 Persistence and degradability

Biodegradability < 7 %; 28 d; aerobic OECD Test Guideline 301F Not readily biodegradable.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water log Pow: ca. 9,44 (20 °C) (calculated)

(Lit.) 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

Catalogue No.822000Product name1-Chlorooctadecane for synthesis

Additional ecological information

No ecological problems are to be expected when the product is handled and used with due care and attention.

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)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
14.7 Transport in bulk according	to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15. Regulatory information

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

	work.
Occupational restrictions	Take note of Dir 94/33/EC on the protection of young people at
Legislation	Not applicable
Major Accident Hazard	SEVESO III
EU regulations	

Catalogue No. Product name	822000 1-Chlorooctadecane	for synthesis
Regulation (EC) No 1005/2 deplete the ozone layer	009 on substances that	not regulated
Regulation (EC) No 850/20 Parliament and of the Coun persistent organic pollutant Directive 79/117/EEC	cil of 29 April 2004 on	not regulated
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 \ge 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.

SECTION 16. Other information

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

H315	Causes skin irritation.
H413	May cause long lasting harmful effects to aquatic life.

Training advice

Provide adequate information, instruction and training for operators.

Labelling

Hazard pictograms



Signal word

Catalogue No.822000Product name1-Chlorooctadecane for synthesis

Warning

Hazard statements

H315 Causes skin irritation.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements Prevention P273 Avoid release to the environment. Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P313 Get medical advice/ attention.

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.