	Date of issue: 01.09.2013	Version 1.0
SECTION 1. Identification of the su 1.1 Product identifier	ubstance/mixture and of the company	/undertaking
Catalogue No.	818899	
Product name	Sebacoyl dichloride for synthesis	
REACH Registration Number	A registration number is not availabl substance or its use are exempted f Article 2 REACH Regulation (EC) No does not require a registration or the later registration deadline.	from registration according to lo 1907/2006, the annual tonnage
1.2 Relevant identified uses of th	e substance or mixture and uses adv	rised against
Identified uses	Chemical for synthesis For additional information on uses p portal (www.merck-chemicals.com).	
1.3 Details of the supplier of the	safety data sheet	
Company Responsible Department	Merck KGaA * 64271 Darmstadt * G EHS Manager *+61 (3) 8727 6300 * 5:00pm (EST)	5
Regional representation	Merck Pty. Limited ABN 80 001 239 818 Ground Floor, Building 1 885 Mountain Highway Bayswater VIC 3153 Australia www.merckmillipore.com	
1.4 Emergency telephone number	+61 (3) 8727 6300 After hours: CHEMCALL 1800 127 Poisons Information Centre : 13 11	

SECTION 2. Hazards identification

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

Acute toxicity, Category 4, Oral, H302 Skin corrosion, Category 1B, H314 Specific target organ toxicity - single exposure, Category 3, H335 For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification (67/548/EEC or 1999/45/EC)		
Xn	Harmful	R22
С	Corrosive	R34

For the full text of the R-phrases mentioned in this Section, see Section 16.

Catalogue No.818899Product nameSebacoyl dichloride for synthesis

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms



Signal word Danger

Hazard statements H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.

Precautionary statements

Prevention P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309 + P310 IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

Reduced labelling (≤125 ml)

Hazard pictograms



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P309 + P310 IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

CAS-No. 111-19-3

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

3.1 Substance

 Formula
 CIOC(CH2)&COCI
 C10H1&CI2O2 (Hill)

 CAS-No.
 111-19-3

Catalogue No. Product name	818899 Sebaco	yl dichloride for synthesis
	202.0	40 A
EC-No.	203-84	43-4
Molar mass	239,14	1 g/mol
Chemical Nan	mponents (REGULATIO	
CAS-No.	Registration number	Classification
Sebacoyl dich	loride <i>(<= 100 %)</i>	
111-19-3	*)	Acute toxicity, Category 4, H302 Skin corrosion, Category 1B, H314 Specific target organ toxicity - single exposure, Category 3, H335

*) 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.

Hazardous components (1999/45/EC)

Chemical Name (Concentration)CAS-No.ClassificationSebacoyl dichloride (<= 100 %)</td>111-19-3Xn, Harmful; R22C, Corrosive; R34

For the full text of the R-phrases mentioned in this Section, see Section 16.

3.2 Preparation

not applicable

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air. Call in physician.

After skin contact: wash off with plenty of water. Immediately remove contaminated clothing. If available swab with polyethylene glycol 400. Call a physician immediately.

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

Irritation and corrosion, Cough, Shortness of breath, muscular weakness Risk of blindness!

4.3 Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media Water, Foam

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Product name	Sebacoyl dichloride for synthesis

5.2 Special hazards arising from the substance or mixture

Combustible material, 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: Avoid substance contact. Do not breathe vapours, aerosols. 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 empty into 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

Advice on safe handling

Keep workplace dry. Do not allow product to come into contact with water.

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. Dry.

Store at +15°C to +25°C.

7.3 Specific end use(s)

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

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SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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 Tightly fitting safety goggles

Hand protection

full contact:

	Glove material:	butyl-rubber
	Glove thickness:	0,7 mm
	Break through time:	> 480 min
splash contact:		
	Glove material:	Nitrile rubber
	Glove thickness:	0,40 mm
	Break through time:	> 10 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 898 Butoject® (full contact), KCL 730 Camatril® -Velours (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 Acid-resistant protective clothing

Respiratory protection required when vapours/aerosols are generated.

Environmental exposure controls

Do not empty into drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form

liquid

Catalogue No. Product name	818899 Sebacoyl dichloride for synthesis
Colour	colourless
Odour	stinging
Odour Threshold	No information available.
рН	No information available.
Melting point	-5 °C
Boiling point/boiling range	161 °C at 19 hPa
Flash point	113 °C Method: c.c.
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	No information available.
Relative vapour density	No information available.
Relative density	1,12 g/cm³ at 20 °C
Water solubility	at 20 °C (decomposition)
Partition coefficient: n- octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	No information available.
Oxidizing properties	No information available.
0.0 Other data	

9.2 Other data

none

SECTION 10. Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.

10.2 Chemical stability

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

Catalogue No.818899Product nameSebacoyl dichloride for synthesis

10.3 Possibility of hazardous reactions

Water, Alcohols, Oxidizing agents, Strong bases Violent reactions possible with:

10.4 Conditions to avoid

Strong heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. Exposure to moisture.

10.5 Incompatible materials

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: 400 mg/kg (RTECS) Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

absorption

Acute inhalation toxicity

Symptoms: severe mucosal irritations, Cough, Shortness of breath, absorption, Possible damages:, Lung oedema

Acute dermal toxicity This information is not available.

Skin irritation Causes burns.

Eye irritation Causes eye burns. Causes serious eye damage. Risk of blindness!

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.

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

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

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Aspiration hazard This information is not available.

11.2 Further information

Decomposition of the substance with tissue moisture. Further toxicological data: After absorption: Systemic effects: muscular weakness Further data: Handle in accordance with good industrial hygiene and safety practice. Other dangerous properties can not be excluded.

SECTION 12. Ecological information

12.1 Toxicity

No information available.

- **12.2 Persistence and degradability** No information available.
- 12.3 Bioaccumulative potential

No information available.

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 We have no quantitative data concerning the ecological effects of this product. Biological effects: Harmful effect due to pH shift. Further information on ecology Discharge into the environment must be avoided.

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Product name	Sebacoyl dichloride for synthesis

SECTION 13. Disposal considerations

Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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 UN number	UN 3265
14.2 Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (SEBACOYL DICHLORIDE)
14.3 Class	8
14.4 Packing group	II
14.5 Environmentally hazardous	
14.6 Special precautions for user	yes
Tunnel restriction code	E
Inland waterway transport (ADN)	
Not relevant	
Air transport (IATA)	
14.1 UN number	UN 3265
14.2 Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (SEBACOYL DICHLORIDE)
14.3 Class	8
14.4 Packing group	II
14.5 Environmentally hazardous	
14.6 Special precautions for user	no
Sea transport (IMDG)	
14.1 UN number	UN 3265
14.2 Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (SEBACOYL DICHLORIDE)
14.3 Class	8
14.4 Packing group	II
14.5 Environmentally hazardous	
14.6 Special precautions for user	yes
EmS	F-A S-B

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

Catalogue No.	818899
Product name	Sebacoyl dichloride for synthesis
Other regulations Hazchem Code	2X

SECTION 15. Regulatory information

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

National legislationStorage class8A

15.2 Chemical Safety Assessment

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

SECTION 16. Other information

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

Full text of R-phrases referred to under sections 2 and 3

R22	Harmful if swallowed.
R34	Causes burns.

Training advice

Provide adequate information, instruction and training for operators.

Labelling (67/54) Symbol(s)	8/EEC or 1999/45/EC)	Corrosive
R-phrase(s) S-phrase(s)	22-34 26-36/37/39-45	Harmful if swallowed. Causes burns. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
EC-No.	203-843-4	
Reduced labo Symbol(s)	elling (≤125 ml) C	Corrosive
R-phrase(s) S-phrase(s)	22-34 26-36/37/39-45	Harmful if swallowed. Causes burns. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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.

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.