according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: **3325**Version: **2.0 en**date of compilation: 2016-10-28
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Replaces version of: 2021-03-10

Version: (1)

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

1.1 Product identifier

Identification of the substance Capric acid methyl ester \geq 98%, for synthesis

Article number 3325

Registration number (REACH)

It is not required to list the identified uses be-

cause the substance is not subject to registration

according to REACH (< 1 t/a).

EC number 203-766-6 CAS number 110-42-9

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for private purposes (household).

Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

dermany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment

sheet:

e-mail (competent person): sicherheit@carlroth.de

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Centre Beaumont Hospital	Beaumont Road	Dublin 9	+353 1 809 2166	https:// www.poisons.ie/

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16

Ireland (en) Page 1 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

The most important adverse physicochemical, human health and environmental effects Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word Not required

Pictograms

GHS09



Hazard statements

H411 Toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P273 Avoid release to the environment

Labelling of packages where the contents do not exceed 125 ml

Signal word: Not required.

Symbol(s)



2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Capric acid methyl ester

Molecular formula $C_{11}H_{22}O_2$ Molar mass $186,3\,^9I_{mol}$ CAS No 110-42-9 EC No 203-766-6

Ireland (en) Page 2 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Substance, Specific Conc. Limits, M-factors, ATE					
Specific Conc. Limits	M-Factors	ATE	Exposure route		
-	-	>5 ^{mg} / _l /4h	inhalation: dust/ mist		

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO $_2$)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Ireland (en) Page 3 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 2 – 8 °C

Ireland (en) Page 4 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Human health values

Relevant DNELs and other threshold levels						
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time		
DNEL	61,4 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects		
DNEL	121,8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects		

Environmental values

Relevant PNECs and other threshold levels Endpoint Threshold Organism Environmental compartment Exposure time

point	level	Organism	partment	Exposure time
PNEC	0,001 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)
PNEC	0 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)
PNEC	100 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PNEC	0,047 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	0,005 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)
PNEC	10 ^{mg} / _{kg}	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection





Use safety goggle with side protection.

Skin protection





Ireland (en) Page 5 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

type of material

NBR (Nitrile rubber)

material thickness

>0,11 mm

breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid

Colour colourless

Odour characteristic

Melting point/freezing point -18 °C (ECHA)

Boiling point or initial boiling point and boiling 224 °C at 1.013 hPa (ECHA)

range

Flammability this material is combustible, but will not ignite

readily

Lower and upper explosion limit 0,7 vol% (LEL)

Flash point 110,5 °C at 1.013 mbar (ECHA)

Auto-ignition temperature 230 °C (ECHA)

Decomposition temperature not relevant
pH (value) not determined

Ireland (en) Page 6 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Kinematic viscosity 2,4 mm²/s at 20 °C

Dynamic viscosity 2,095 cP at 20 °C

Solubility(ies)

Water solubility $0,0106 \, ^{\rm g}/_{\rm l}$ at 25 $^{\circ}{\rm C}$

Partition coefficient

Partition coefficient n-octanol/water (log value): 4,42 (36 °C) (ECHA)

Soil organic carbon/water (log KOC) 3,3 (ECHA)

Vapour pressure 4,93 Pa at 25 °C

Density and/or relative density

Density $0.873 \, {}^{9}/_{cm^3}$ at 20 °C (ECHA)

Relative vapour density 6,43 (air = 1)

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics:

Temperature class (EU, acc. to ATEX) T3

Maximum permissible surface temperature on

the equipment: 200°C

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

If heated

Vapours may form explosive mixtures with air.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Ireland (en) Page 7 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	>2.000 ^{mg} / _{kg}	rat		ECHA
inhalation: dust/ mist	LC50	>5 ^{mg} / _l /4h	rat		ECHA

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

Data are not available.

• If in eyes

Data are not available.

Ireland (en) Page 8 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

If inhaled

Data are not available.

• If on skin

Data are not available.

Other information

none

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)					
Endpoint	Value	Species	Source	Exposure time	
LC50	1.700 ^{mg} / _l	orfe (Leuciscus idus)		48 h	
EC50	1,1 ^{mg} / _l	aquatic invertebrates	ECHA	48 h	
ErC50	>3,93 ^{mg} / _l	algae	ECHA	72 h	

Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
EC50	0,22 ^{mg} / _l	aquatic invertebrates	ECHA	21 d
LC50	0,252 ^{mg} / _l	aquatic invertebrates	ECHA	21 d

12.2 Persistence and degradability

Theoretical Oxygen Demand: 2,662 $^{\rm mg}/_{\rm mg}$ Theoretical Carbon Dioxide: 2,599 $^{\rm mg}/_{\rm mg}$

Biodegradation

The substance is readily biodegradable.

Process of degradability					
Process	Degradation rate	Time			
oxygen depletion	78 %	28 d			

12.3 Bioaccumulative potential

The substance fulfils the very bioaccumulative criterion.

n-octanol/water (log KOW)	4,42 (36 °C) (ECHA)
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Ireland (en) Page 9 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

12.4 Mobility in soil

Henry's law constant	171 ^{Pa m³} / _{mol} at 25 °C (ECHA)
The Organic Carbon normalised adsorption coefficient	3,3 (ECHA)

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

HP 14 ecotoxic

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADRRID	UN 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082

Ireland (en) Page 10 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

14.2 UN proper shipping name	14.2	UN	proper	ship	ping	name
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ADRRID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

IMDG-Code ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

ICAO-TI Environmentally hazardous substance, liquid,

n.o.s.

Technical name Capric acid methyl ester

14.3 Transport hazard class(es)

ADRRID 9
IMDG-Code 9
ICAO-TI 9

14.4 Packing group

ADRRID III
IMDG-Code III
ICAO-TI III

14.5 Environmental hazards hazardous to the aquatic environment

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

Particulars in the transport document UN3082, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, LIQUID, N.O.S., (Capric acid methyl es-

ter), 9, III, (-)

Classification code M6

Danger label(s) 9, "Fish and tree"



Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
Transport category (TC) 3
Tunnel restriction code (TRC) -

Ireland (en) Page 11 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Hazard identification No 90

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional

information

Classification code M6

Danger label(s) 9, "Fish and tree"

Environmental hazards Yes

Hazardous to water

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
Transport category (TC) 3
Hazard identification No 90

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

Particulars in the shipper's declaration UN3082, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, LIQUID, N.O.S., (Capric acid methyl es-

ter), 9, III

Marine pollutant Yes (hazardous to the aquatic environment), (Capric acid

methyl ester)

Danger label(s) 9, "Fish and tree"

Special provisions (SP) 274, 335, 969

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
EmS F-A, S-F

Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Environmentally hazardous substance, liquid,

n.o.s.

Particulars in the shipper's declaration UN3082, Environmentally hazardous substance,

liquid, n.o.s., (Capric acid methyl ester), 9, III

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 9, "Fish and tree"

Special provisions (SP) A97, A158, A197, A215

Ireland (en) Page 12 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Excepted quantities (EQ) **F1** Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII) **CAS No** Name of substance Name acc. to inventory Restriction No Capric acid methyl ester R3 this product meets the criteria for 3 classification in accordance with Regulation No 1272/2008/EC

Legend

- 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
 Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they
- can be used as fuel in decorative oil lamps for supply to the general public, and
 present an aspiration hazard and are labelled with H304.
- 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation
- (CEN).

 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following require-
- ments are met:
 (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil or even sucking the wick of lamps may lead to life-threatening lung damage";
 (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
 (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list Not listed.

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (plication of lower a quirem		Notes
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200	500	57)

Hazardous to the Aquatic Environment in category Chronic 2

Deco-Paint Directive

Page 13 / 21 Ireland (en)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

VOC content	100 %
VOC content	873 ^g / _l

Industrial Emissions Directive (IED)

VOC content	0 %
VOC content	0 ^g / _l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

not listed

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed

Ireland (en) Page 14 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Country	Inventory	Status
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

AIIC CSCL-ENCS

Australian Inventory of Industrial Chemicals List of Existing and New Chemical Substances (CSCL-ENCS) Domestic Substances List (DSL)

DSL ECSI IECSC KECI

Domestic Substances List (DSL)
ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC Inventory of Existing Chemical Substances Produced or Imported in China KECI Korea Existing Chemicals Inventory
NCI National Chemical Inventory
NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory
TSCA Toxic Substance Control Act

TCSI TSCA **Toxic Substance Control Act**

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
1.1		EC number: 203-766-6	yes
1.1	EC number: 203-766-6	CAS number: 110-42-9	yes
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1	Remarks: For full text of Hazard- and EU Hazard-state- ments: see SECTION 16.		yes
2.1		The most important adverse physicochemical, human health and environmental effects: Spillage and fire water can cause pollution of watercourses.	yes
2.2	Signal word: Warning	Signal word: Not required	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2	Precautionary statements - response		yes
2.2		Precautionary statements - response: change in the listing (table)	yes

Ireland (en) Page 15 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Warning	Labelling of packages where the contents do not exceed 125 ml: Signal word: Not required.	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.1	UN number: (not subject to transport regulations)	UN number or ID number	yes
14.1		ADRRID: UN 3082	yes
14.1		IMDG-Code: UN 3082	yes
14.1		ICAO-TI: UN 3082	yes
14.2	UN proper shipping name: not relevant	UN proper shipping name	yes
14.2		ADRRID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	yes
14.2		IMDG-Code: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	yes
14.2		ICAO-TI: Environmentally hazardous substance, liquid, n.o.s.	yes
14.2		Technical name: Capric acid methyl ester	yes
14.3	Transport hazard class(es): not relevant	Transport hazard class(es)	yes
14.3	Class: -		yes
14.3		ADRRID:	yes
14.3		IMDG-Code: 9	yes
14.3		ICAO-TI:	yes
14.4	Packing group: not relevant	Packing group	yes
14.4		ADRRID: III	yes

Ireland (en) Page 16 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
14.4		IMDG-Code: III	yes
14.4		ICAO-TI: III	yes
14.5	Environmental hazards: none (non-environmentally hazardous acc. to the dangerous goods regulations)	Environmental hazards: hazardous to the aquatic environment	yes
14.6	Special precautions for user: There is no additional information.	Special precautions for user: Provisions for dangerous goods (ADR) should be complied within the premises.	yes
14.8	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN): Not subject to ADR, RID and ADN.	Agreement concerning the International Car- riage of Dangerous Goods by Road (ADR)Addi- tional information	yes
14.8		Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	yes
14.8		Particulars in the transport document: UN3082, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, LIQUID, N.O.S., (Capric acid methyl es- ter), 9, III, (-)	yes
14.8		Classification code: M6	yes
14.8		Danger label(s): 9, "Fish and tree"	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.8		Special provisions (SP): 274, 335, 375, 601	yes
14.8		Excepted quantities (EQ): E1	yes
14.8		Limited quantities (LQ): 5 L	yes
14.8		Transport category (TC): 3	yes
14.8		Tunnel restriction code (TRC): -	yes
14.8		Hazard identification No: 90	yes
14.8		Regulations concerning the International Car- riage of Dangerous Goods by Rail (RID)Addition- al information	yes
14.8		Classification code: M6	yes
14.8		Danger label(s): 9, "Fish and tree"	yes
14.8		Danger label(s): change in the listing (table)	yes

Ireland (en) Page 17 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
14.8		Environmental hazards: Yes Hazardous to water	yes
14.8		Special provisions (SP): 274, 335, 375, 601	yes
14.8		Excepted quantities (EQ): E1	yes
14.8		Limited quantities (LQ): 5 L	yes
14.8		Transport category (TC): 3	yes
14.8		Hazard identification No: 90	yes
14.8	• International Maritime Dangerous Goods Code (IMDG): Not subject to IMDG.	International Maritime Dangerous Goods Code (IMDG) - Additional information	yes
14.8		Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	yes
14.8		Particulars in the shipper's declaration: UN3082, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, LIQUID, N.O.S., (Capric acid methyl es- ter), 9, III	yes
14.8		Marine pollutant: yes (hazardous to the aquatic environment), (Capric acid methyl ester)	yes
14.8		Danger label(s): 9, "Fish and tree"	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Special provisions (SP): 274, 335, 969	yes
14.8		Excepted quantities (EQ): E1	yes
14.8		Limited quantities (LQ): 5 L	yes
14.8		EmS: F-A, S-F	yes
14.8		Stowage category: A	yes
14.8		International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information	yes
14.8		Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.	yes
14.8		Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., (Capric acid methyl ester), 9, III	yes

Ireland (en) Page 18 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
14.8		Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.8		Danger label(s): 9, "Fish and tree"	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Special provisions (SP): A97, A158, A197, A215	yes
14.8		Excepted quantities (EQ): E1	yes
14.8		Limited quantities (LQ): 30 kg	yes
15.1	Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC): Not listed.		yes
15.1	Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS): Not listed.		yes
15.1	Regulation 850/2004/EC on persistent organic pollutants (POP): Not listed.		yes
15.1	Restrictions according to REACH, Annex XVII: not listed	Restrictions according to REACH, Annex XVII	yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1		Seveso Directive	yes
15.1		2012/18/EU (Seveso III): change in the listing (table)	yes
15.1	VOC content: 100 %		yes
15.1		VOC content: 100 %	yes
15.1		VOC content: 873 ^g / _l	yes
15.1		Industrial Emissions Directive (IED)	yes
15.1		VOC content: 0 %	yes
15.1		VOC content: 0 ^g / _l	yes
15.1	National inventories: Substance is listed in the following national inventories: - EINECS/ELINCS/NLP (Europe) - REACH (Europe)		yes
15.1		Regulation on the marketing and use of explosives precursors: not listed	yes

Ireland (en) Page 19 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1		Regulation on drug precursors: not listed	yes
15.1		Regulation on substances that deplete the ozone layer (ODS): not listed	yes
15.1		Regulation concerning the export and import of hazardous chemicals (PIC): not listed	yes
15.1		Regulation on persistent organic pollutants (POP): not listed	yes
15.1		Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	yes
15.1		National inventories	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization

Ireland (en) Page 20 / 21

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Capric acid methyl ester ≥ 98%, for synthesis

article number: 3325

Abbr.	Descriptions of used abbreviations
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Ireland (en) Page 21 / 21