acc. to Regulation (EC) No. 1907/2006 (REACH)

# ROTH

#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: **5498**Version: **2.0 en**date of compilation: 2019-08-21
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Version: (1)

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

#### 1.1 Product identifier

Identification of the substance **1,2-Dimethoxyethane** >99 %, for synthesis

Article number 5498

EC number 203-794-9
CAS number 110-71-4

#### 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 products which come into contact

with foodstuffs. Do not use for private purposes

(household).

#### 1.3 Details of the supplier of the safety data sheet

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

**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:

y data . Department nearth, Safety and Environment

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

#### 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	2	Flam. Liq. 2	H225
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.7	Reproductive toxicity	1B	Repr. 1B	H360FD

United Kingdom (en) Page 1 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

#### **Supplemental hazard information**

Code	Supplemental hazard information
EUH019	may form explosive peroxides

For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

#### Labelling

Signal word Danger

#### **Pictograms**

GHS02, GHS07, GHS08



#### **Hazard statements**

H225 Highly flammable liquid and vapour

H332 Harmful if inhaled

H360FD May damage fertility. May damage the unborn child

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking

P280 Wear protective gloves/eye protection

#### **Precautionary statements - response**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower]

P308+P313 IF exposed or concerned: Get medical advice/attention Call a POISON CENTRE/doctor if you feel unwell

For professional users only

#### Supplemental hazard information

EUH019 May form explosive peroxides.

#### 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.

United Kingdom (en) Page 2 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Name of substance 1,2-Dimethoxyethane

Molecular formula  $C_4H_{10}O_2$  Molar mass  $90,12\,^g/_{mol}$  CAS No 110-71-4 EC No 203-794-9

### **Substance of Very High Concern (SVHC)**

Name of substance	CAS No	EC No	Listed in	Remarks
1,2-Dimethoxyethane	110-71-4	203-794-9	Candidate list	Repr. A57c

#### Legend

candidate Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV

Repr. A57c Toxic for reproduction (article 57c)

#### Substance, Specific Conc. Limits, M-factors, ATE

Specific Conc. Limits	M-Factors	ATE	Exposure route
-	-	11 <sup>mg</sup> / <sub>l</sub> /4h	inhalation: vapour

### **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.

#### Following eye contact

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

#### **Following ingestion**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

Irritation

United Kingdom (en) Page 3 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

#### 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<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

#### **Hazardous combustion products**

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. 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

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Danger of explosion.

#### 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.

United Kingdom (en) Page 4 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)

# ROTH

#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

#### 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. Avoid exposure.

#### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

#### **Incompatible substances or mixtures**

Observe hints for combined storage.

#### Consideration of other advice:

Ground/bond container and receiving equipment.

#### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 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.

United Kingdom (en) Page 5 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

#### **Human health values**

Relevant DNI	Relevant DNELs and other threshold levels						
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time			
DNEL	1,88 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects			
DNEL	0,27 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects			

#### **Environmental values**

Relevant	Relevant PNECs and other threshold levels							
End- point	Threshold level	Organism	Environmental com- partment	Exposure time				
PNEC	6,4 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)				
PNEC	0,64 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)				
PNEC	20 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)				
PNEC	25,7 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)				
PNEC	2,57 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)				
PNEC	1,39 <sup>mg</sup> / <sub>kg</sub>	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





#### 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

Butyl caoutchouc (butyl rubber)

United Kingdom (en) Page 6 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

#### material thickness

0,5 mm

#### breakthrough times of the glove material

>60 minutes (permeation: level 3), >480 minutes (permeation: level 6)

#### other protection measures

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

Flame-retardant protective clothing.

#### **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**

#### Information on basic physical and chemical properties 9.1

Physical state

Colour colourless - clear Odour sharp - like ether

Melting point/freezing point -58 °C Boiling point or initial boiling point and boiling

range

82 - 83 °C

**Flammability** flammable liquid in accordance with GHS criteria

Lower and upper explosion limit 1,6 vol% (LEL) - 10,4 vol% (UEL)

Flash point -3 °C at 1.013 hPa (ECHA) 205 °C at 1.008 hPa (ECHA) Auto-ignition temperature

not relevant Decomposition temperature pH (value) not determined 0,483 mm<sup>2</sup>/<sub>s</sub> at 20 °C Kinematic viscosity 0,42 mPa s at 20 °C Dynamic viscosity

Solubility(ies)

Water solubility not determined

Partition coefficient

Partition coefficient n-octanol/water (log value): -0,21 (25 °C) (ECHA)

United Kingdom (en) Page 7 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

Vapour pressure 66 hPa at 20 °C

Density and/or relative density

Density  $0.87 \, {}^{\rm g}/{}_{\rm cm^3}$  at 20 °C (ECHA)

Relative vapour density 3,11 (air = 1)

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

There is no additional information.

Other safety characteristics:

Surface tension  $70.7 \,^{\text{mN}}/_{\text{m}} (23 \,^{\circ}\text{C}) (ECHA)$ 

Refractive index 1,381

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

It's a reactive substance. Risk of ignition. Vapours may form explosive mixtures with air.

#### If heated

Risk of ignition.

#### If exposed to air

May form explosive peroxides.

#### 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, Acid chlorides, inorganic

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

United Kingdom (en) Page 8 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Classification acc. to GHS

#### **Acute toxicity**

Harmful if inhaled.

Λ-	ute	4-	: .	:
Δr	HTP	TO	XIC	ITV
	ucc		~:~	

Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	5.370 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA
dermal	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	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**

May damage the unborn child. May damage fertility.

#### 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

slightly irritant but not relevant for classification

#### • If inhaled

slightly irritant but not relevant for classification

#### • If on skin

slightly irritant but not relevant for classification

United Kingdom (en) Page 9 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



72 h

#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

Other information

none

#### 11.2 Endocrine disrupting properties

Not listed.

#### 11.3 Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

 $9.120 \, \text{mg/}_{\text{I}}$ 

#### **Aquatic toxicity (acute)** Exposure time **Endpoint Value Species Source** LC50 >5.000 <sup>mg</sup>/<sub>I</sub> fish **ECHA** 96 h EC50 4.000 mg/1 aquatic invertebrates **ECHA** 48 h

algae

**ECHA** 

Aquatic toxicity (chronic)					
Endpoint	Value	Species	Source	Exposure time	
EC50	>6.400 <sup>mg</sup> / <sub>l</sub>	microorganisms	ECHA	3 h	

#### **Biodegradation**

Data are not available.

ErC50

#### 12.2 Process of degradability

Theoretical Oxygen Demand: 1,953 <sup>mg</sup>/<sub>mg</sub> Theoretical Carbon Dioxide: 1,953 <sup>mg</sup>/<sub>mg</sub>

#### **Process of degradability**

Process	Degradation rate	Time
biotic/abiotic	100 %	10 d
DOC removal	16 %	48 d

#### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)	-0,21 (25 °C) (ECHA)	
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#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

United Kingdom (en) Page 10 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

### 12.6 Endocrine disrupting properties

Not listed.

#### 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.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

#### 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. Waste catalogue ordinance (Germany).

#### 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.

# **SECTION 14: Transport information**

UN number or ID number	
ADRRID	UN 2252
IMDG-Code	UN 2252
ICAO-TI	UN 2252
UN proper shipping name	
ADRRID	1,2-DIMETHOXYETHANE
IMDG-Code	1,2-DIMETHOXYETHANE
ICAO-TI	1,2-Dimethoxyethane
Transport hazard class(es)	
ADRRID	3
IMDG-Code	3
ICAO-TI	3
Packing group	
ADRRID	II
IMDG-Code	II
ICAO-TI	II
	ADRRID IMDG-Code ICAO-TI UN proper shipping name ADRRID IMDG-Code ICAO-TI Transport hazard class(es) ADRRID IMDG-Code ICAO-TI Packing group ADRRID IMDG-Code

United Kingdom (en) Page 11 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)

#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dan-

gerous goods regulations

#### 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

# Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Proper shipping name 1,2-DIMETHOXYETHANE

Particulars in the transport document UN2252, 1,2-DIMETHOXYETHANE, 3, II, (D/E)

Classification code F1
Danger label(s) 3



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

Classification code F1

Danger label(s) 3



Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L
Transport category (TC) 2
Hazard identification No 33

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name 1,2-DIMETHOXYETHANE

Particulars in the shipper's declaration UN2252, 1,2-DIMETHOXYETHANE, 3, II, -3°C c.c.

Marine pollutant Danger label(s) 3

United Kingdom (en) Page 12 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

Special provisions (SP)

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-E, S-D

Stowage category B

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

Proper shipping name 1,2-Dimethoxyethane

Particulars in the shipper's declaration UN2252, 1,2-Dimethoxyethane, 3, II

Danger label(s) 3



Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L

# **SECTION 15: Regulatory information**

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

#### **Seveso Directive**

2012/	18/EU (Seveso III)			
No	Dangerous substance/hazard categories	plication of lower	(tonnes) for the ap- and upper-tier re- ments	Notes
P5c	flammable liquids (cat. 2, 3)	5.000	50.000	51)

#### Notation

#### **Deco-Paint Directive**

VOC content   100 %   870 <sup>g</sup> / <sub>l</sub>	VOC content	100 % 870 <sup>9</sup> / <sub>I</sub>
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#### **Industrial Emissions Directive (IED)**

VOC content	100 %
VOC content	870 <sup>g</sup> / <sub>l</sub>

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

United Kingdom (en) Page 13 / 17

<sup>51)</sup> Flammable liquids, categories 2 or 3 not covered by P5a and P5b

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

#### **Water Framework Directive (WFD)**

#### **List of pollutants (WFD)**

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
1,2-Dimethoxyethane	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	

Legend

A) Indicative list of the main pollutants

#### 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

#### National regulations(GB)

#### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

#### Substance of Very High Concern (SVHC) acc. to GB REACH and HSE

Name of substance	CAS No	Listed in	Remarks
1,2-Dimethoxyethane	110-71-4	Candidate list	Repr. A57c

Legend

candidate Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV

Repr. A57c Toxic for reproduction (Article 57c)

#### Restrictions according to GB REACH, Annex 17

### Dangerous substances with restrictions (GB REACH, Annex 17)

	g,,,,			
Name of substance	Name acc. to inventory	CAS No	No	
1,2-Dimethoxyethane	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3	
1,2-Dimethoxyethane	toxic for reproduction		30	
1,2-Dimethoxyethane	flammable / pyrophoric		40	

United Kingdom (en) Page 14 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

#### 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
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

Legend

AIIC CSCL-ENCS DSL ECSI

Australian Inventory of Industrial Chemicals
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances **IECSC** 

KECI Korea Existing Chemicals Inventory

NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances

Taiwan Chemical Substance Inventory **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)

Alignment to regulation:

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.1		Supplemental hazard information: change in the listing (table)	yes

United Kingdom (en) Page 15 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



# 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		The most important adverse physicochemical, human health and environmental effects: The product is combustible and can be ignited by potential ignition sources.	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	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

# Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
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)
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)
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

United Kingdom (en) Page 16 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)



#### 1,2-Dimethoxyethane >99 %, for synthesis

article number: 5498

Abbr.	Descriptions of used abbreviations
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HSE	Health and Safety Executive
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
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
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

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
H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H360FD	May damage fertility. May damage the unborn child.

#### **Disclaimer**

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

United Kingdom (en) Page 17 / 17