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



date of compilation: 2019-06-19

Revision: 2024-03-02

#### Methanol D4 99,8 Atom%D

article number: **AE57** Version: **3.0 en** Replaces version of: 2022-08-03 Version: (2)

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

1.1 Product identifier

Identification of the substance	Methanol D4 99,8 Atom%D
Article number	AE57
EC number	212-378-6
CAS number	811-98-3

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

Relevant identified uses:

Uses advised against:

Laboratory and analytical use

Laboratory chemical

Do not use for products which come into contact with foodstuffs. 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

**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 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** 

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



#### Methanol D4 99,8 Atom%D

#### article number: AE57

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	2	Flam. Liq. 2	H225
3.10	Acute toxicity (oral)	3	Acute Tox. 3	H301
3.1D	Acute toxicity (dermal)	3	Acute Tox. 3	H311
3.1I	Acute toxicity (inhal.)	3	Acute Tox. 3	H331
3.8	Specific target organ toxicity - single exposure	1	STOT SE 1	H370

For full text of abbreviations: see SECTION 16

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

Immediate effects can be expected after short-term exposure. The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

Labelling

**Signal word** Danger

**Pictograms** 

GHS08



#### **Hazard statements**

H225	Highly flammable liquid and vapour
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled
H370	Causes damage to organs (respiratory tract)

#### **Precautionary statements**

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

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking
P233	Keep container tightly closed
P280	Wear protective gloves/eye protection

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

P302+P352	IF ON SKIN: Wash with plenty of water
P310	Immediately call a POISON CENTER/doctor

#### **Precautionary statements - storage**

P403+P235 Store in a well-ventilated place. Keep cool

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

#### Methanol D4 99,8 Atom%D

article number: AE57

#### 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  $\ge 0,1\%$ .

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

#### 3.1 Substances

Name of substance	Methanol D4
Molecular formula	CD₃OD
Molar mass	36,07 <sup>g</sup> / <sub>mol</sub>
CAS No	811-98-3
EC No	212-378-6

Substance, Specific Conc. Limits, M-factors, ATE			
Specific Conc. Limits	M-Factors	ΑΤΕ	Exposure route
-	-	300 <sup>mg</sup> / <sub>kg</sub> 1.000 <sup>mg</sup> / <sub>kg</sub> 10 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: vapour

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### **Following inhalation**

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

#### Following skin contact

After contact with skin, wash immediately with plenty of water.

#### 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 immediately and drink plenty of water. Call a physician immediately.

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

Has degreasing effect on the skin, Headaches and dizziness may occur, proceeding to fainting or unconsciousness, Large doses may result in coma and death, Loss of righting reflex, and ataxia, Spasms, Irritation,

Following ingestion: Abdominal pain, Nausea, Vomiting, Following inhalation: Cough, After eye contact: Impairment of vision, Conjunctivitis (pink eye), Conjunctival redness of the eyes



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



#### Methanol D4 99,8 Atom%D

article number: AE57

# **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 vapourair 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 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. Wear full chemical protective clothing.

#### **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. Retain contaminated washing water and dispose of it.

#### 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.

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#### Methanol D4 99,8 Atom%D

article number: AE57

#### 6.4 Reference to other sections

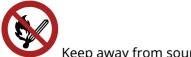
Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Use extractor hood (laboratory). Handle and open container with care. Clear contaminated areas thoroughly.

#### 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

When using do not eat or drink. Thorough skin-cleansing after handling the product. 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:

Store locked up. 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.

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#### Methanol D4 99,8 Atom%D

article number: AE57

#### 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. Check leak-tightness/impermeability prior to use. 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)

#### • material thickness

0,7mm

#### • 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.

Flame-retardant protective clothing.

#### **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation. Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

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

#### Methanol D4 99,8 Atom%D

article number: AE57

## **SECTION 9: Physical and chemical properties**

9.1	Information on basic physical and chemical properties		
	Physical state	liquid	
	Colour	colourless	
	Odour	alcohol	
	Melting point/freezing point	-98 °C	
	Boiling point or initial boiling point and boiling range	65 °C	
	Flammability	flammable liquid in accordance with GHS criteria	
	Lower and upper explosion limit	5,5 vol% (LEL) - 36,5 vol% (UEL)	
	Flash point	11 °C	
	Auto-ignition temperature	440 °C	
	Decomposition temperature	not relevant	
	pH (value)	not determined	
	Kinematic viscosity	0,6742 <sup>mm²</sup> / <sub>s</sub> at 20 °C	
	Dynamic viscosity	0,6 mPa s at 20 °C	
	Solubility(ies)		
	Water solubility	not determined	
	Partition coefficient		
	Partition coefficient n-octanol/water (log value):	-0,77	
	Vapour pressure	129 hPa at 20 °C	
	Density and/or relative density		
	Density	0,89 <sup>g</sup> / <sub>cm³</sub>	
	Relative vapour density	Information on this property is not available.	
	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:		
	Refractive index	1,326	



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

#### Methanol D4 99,8 Atom%D

article number: AE57

## **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.

#### 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

Danger of explosion: strong oxidiser, Hydrogen peroxide, Nitric acid, Perchlorates, Magnesium, Chlorates,
Exothermic reaction with: Acid, Reducing agent, Chloroform,
Release of an acute toxic gas: Alkali metals, Alkaline earth metal

#### 10.4 Conditions to avoid

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

## 10.5 Incompatible materials

different plastics, zinc

#### **10.6 Hazardous decomposition products**

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

#### **11.1** Information on toxicological effects

#### **Classification acc. to GHS**

Acute toxicity

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

#### 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

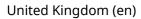
Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Causes damage to organs (respiratory tract).





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



#### Methanol D4 99,8 Atom%D

#### article number: **AE57**

Hazard category	Target organ	Exposure route
1	respiratory tract	if exposed

#### 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

vomiting, abdominal pain, risk of blindness, large doses may result in coma and death, poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of consciousness, loss of righting reflex, and ataxia

#### • If in eyes

conjunctivitis (pink eye)

#### • If inhaled

cough, headache

#### • If on skin

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation)

#### • Other information

none

#### 11.2 Endocrine disrupting properties

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

#### 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.

#### 12.2 Persistence and degradability

Theoretical Oxygen Demand: 1,5 <sup>g</sup>/<sub>g</sub> Theoretical Carbon Dioxide: 1,22 <sup>mg</sup>/<sub>mg</sub>

Process of degradability		
Process	Degradation rate	Time
biotic/abiotic	99 %	30 d

#### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)

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



#### Methanol D4 99,8 Atom%D

article number: AE57

#### 12.4 Mobility in soil

Data are not available.

- **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  $\ge 0,1\%$ .

#### 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.

#### 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 3 flammable
- HP 5 specific target organ toxicity (STOT)/aspiration toxicity
- HP 6 acute toxicity

#### 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 1230
IMDG-Code	UN 1230
ICAO-TI	UN 1230
UN proper shipping name	
ADRRID	METHANOL
IMDG-Code	METHANOL
ICAO-TI	Methanol

14.2

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

#### Methanol D4 99,8 Atom%D

article number: AE57



14.3	Transport hazard class(es)	
	ADRRID	3 (6.1)
	IMDG-Code	3 (6.1)
	ICAO-TI	3 (6.1)
14.4	Packing group	
	ADRRID	II
	IMDG-Code	II
	ICAO-TI	II
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

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

Proper shipping name	METHANOL	
Particulars in the transport document	UN1230, METHANOL, 3 (6.1), II, (D/E)	
Classification code	FT1	
Danger label(s)	3+6.1	
Special provisions (SP)	279, 802(ADN)	
Excepted quantities (EQ)	E2	
Limited quantities (LQ)	1 L	
Transport category (TC)	2	
Tunnel restriction code (TRC)	D/E	
Hazard identification No	336	
Emergency Action Code	2WE	
Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information		
Classification code	FT1	
Danger label(s)	3+6.1	
Special provisions (SP)	279, 802(ADN)	

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

#### Methanol D4 99,8 Atom%D

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Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Hazard identification No	336
International Maritime Dangerous Goods Code	e (IMDG) - Additional information
Proper shipping name	METHANOL
Particulars in the shipper's declaration	UN1230, METHANOL, 3 (6.1), II, 11°C c.c.
Marine pollutant	-
Danger label(s)	3+6.1
5	
Special provisions (SP)	279
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, S-D
Stowage category	В
International Civil Aviation Organization (ICA	D-IATA/DGR) - Additional information
Proper shipping name	Methanol
Particulars in the shipper's declaration	UN1230, Methanol, 3 (6.1), II
Danger label(s)	3+6.1
Special provisions (SP)	A113
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	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements		Notes
H2	acute toxic (cat. 2 + cat. 3, inhal.)	50	200	41)
H3	STOT specific target organ toxicity - single exposure (cat. 1)	50	200	42)

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

#### Methanol D4 99,8 Atom%D

article number: AE57

#### Notation

- 41)
- Category 2, all exposure routes category 3, inhalation exposure route STOT SE category 1 42)

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

VOC content	100 %
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#### **Industrial Emissions Directive (IED)**

VOC content	100 %
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#### 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

#### National regulations(GB)

#### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

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

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
Methanol D4	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3
Methanol D4	flammable / pyrophoric		40

#### 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.



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



#### Methanol D4 99,8 Atom%D

article number: AE57

#### National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	NDSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
ΤW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

#### Legend AIIČ

ECSI IECSC NCI

NDSL

Australian Inventory of Industrial Chemicals EC Substance Inventory (EINECS, ELINCS, NLP) Inventory of Existing Chemical Substances Produced or Imported in China National Chemical Inventory Non-domestic Substances List (NDSL) New Zealand Inventory of Chemicals Philippine Inventory of Chemicals and Chemical Substances (PICCS) Taiwan Chemical Substance Inventory NZIoC PICCS

TCSI Taiwan Chemical Substance Inventory

**Toxic Substance Control Act** TSCA

#### 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
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	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 concern- ing 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)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor

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



#### Methanol D4 99,8 Atom%D

article number: AE57

Abbr.	Descriptions of used abbreviations
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
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 Na- tions
ΙΑΤΑ	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
LEL	Lower explosion limit (LEL)
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
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)
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.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs (respiratory tract).

#### Disclaimer

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