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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade



Replaces version of: 2023-07-27

Version: (5)

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

#### **Product identifier** 1.1

Identification of the substance **Dichloromethane** ROTISOLV® ≥99,9 %, GC Ultra

Grade

Article number **KK47** 

Index No (GB CLP) 602-004-00-3 EC number 200-838-9 CAS number 75-09-2

Alternative name(s) Dichloromethane

#### 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). Food, drink and animal feeding-

stuffs.

#### 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	

United Kingdom (en) Page 1 / 19

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

### **Dichloromethane ROTISOLV®** ≥99,9 %, GC Ultra Grade

article number: KK47



# **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
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.6	Carcinogenicity	2	Carc. 2	H351
3.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

For full text of abbreviations: see SECTION 16

#### 2.2 Label elements

# Labelling

Signal word Warning

# **Pictograms**

GHS07, GHS08





#### **Hazard statements**

H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer

# **Precautionary statements**

# **Precautionary statements - prevention**

P261 Avoid breathing mist/vapours/spray P280 Wear protective gloves/eye protection

# **Precautionary statements - response**

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308+P313 IF exposed or concerned: Get medical advice/attention

For professional users only

United Kingdom (en) Page 2 / 19

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

### **Dichloromethane ROTISOLV®** ≥99,9 %, GC Ultra Grade

article number: KK47



### **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 Dichloromethane

Molecular formula CH<sub>2</sub>Cl<sub>2</sub>

Molar mass 84,93 <sup>g</sup>/<sub>mol</sub>

CAS No 75-09-2 EC No 200-838-9 Index No (GB CLP) 602-004-00-3

To stabilise:

Name of substance	Identifier	Wt%
Amylene	CAS No 513-35-9	0,002 – 0,006
	EC No 208-156-3	

#### Remarks

For full text of abbreviations: see SECTION 16

# SECTION 4: First aid measures

#### **Description of first aid measures** 4.1



#### **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 case of skin irritation, consult a physician.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

# Following ingestion

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

United Kingdom (en) Page 3 / 19



# 2.3

# Results of PBT and vPvB assessment

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

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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



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

Irritation, Nausea, Vomiting, Cough, Vertigo, Dyspnoea, Drowsiness, Dizziness, Narcosis

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, alcohol resistant foam, 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

Non-combustible.

### **Hazardous combustion products**

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen chloride (HCl), Hydrogen halides (HX)

# 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.

# 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.

United Kingdom (en) Page 4 / 19

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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



#### 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**

Avoid exposure. Provide adequate ventilation as well as local exhaustion at critical locations. When not in use, keep containers tightly closed.

# Advice on general occupational hygiene

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

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

Store in a well-ventilated place. Keep container tightly closed.

### **Incompatible substances or mixtures**

Observe hints for combined storage.

### Protect against external exposure, such as

direct light irradiation, UV-radiation/sunlight

#### Consideration of other advice:

# 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)**

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	methylene chloride (dichloromethane)	75-09-2	IOELV	100	353	200	706			Η	2017/ 164/EU
GB	dichloromethane	75-09-2	WEL	100	353	200	706				EH40/ 2005

**Notation** 

**TWA** 

Ceiling value is a limit value above which exposure should not occur Absorbed through the skin Ceiling-C

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) STEL

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average (unless otherwise specified)

United Kingdom (en) Page 5 / 19

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

# Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade





# **Biological limit values**

Coun try	Name of agent	CAS No	Parameter	Nota tion	Identi- fier	Value	Material	Source
GB	dichloromethane	75-09-2	carbon monoxide		BMGV	30 ppm	end-tidal breath	EH40/ 2005

# **Human health values**

# **Relevant DNELs and other threshold levels**

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	706 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
DNEL	176 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	12 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects

#### **Environmental values**

# **Relevant PNECs and other threshold levels**

End- point	Threshold level	Organism	Environmental com- partment	Exposure time	
PNEC	0,31 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)	
PNEC	0,031 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)	
PNEC	26 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)	
PNEC	2,57 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)	
PNEC	0,26 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)	
PNEC	0,33 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)	

# **Relevant PNECs of components**

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Amylene	513-35-9	PNEC	0,37 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Amylene	513-35-9	PNEC	0,37 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
Amylene	513-35-9	PNEC	5,77 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Amylene	513-35-9	PNEC	8,1 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Amylene	513-35-9	PNEC	8,1 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
Amylene	513-35-9	PNEC	1,44 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)

United Kingdom (en) Page 6 / 19

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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



#### 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

FKM: fluoro-elastomer

#### material thickness

0,7mm

# • breakthrough times of the glove material

>120 minutes (permeation: level 4)

### 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: 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.

United Kingdom (en) Page 7 / 19

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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



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

### 9.1 Information on basic physical and chemical properties

Physical state liquid

Colour colourless
Odour mild sweet
Odour threshold 250 ppm

Melting point/freezing point -95 °C at 1.013 hPa (ECHA) Boiling point or initial boiling point and boiling 40 °C at 1.013 hPa (ECHA)

range

Flammability non-combustible

Lower and upper explosion limit 13 vol% (LEL) - 22 vol% (UEL)

Flash point not determined

Auto-ignition temperature 605 °C

Decomposition temperature not relevant
pH (value) not determined
Kinematic viscosity not determined
Dynamic viscosity 0,43 mPa s at 20 °C

Solubility(ies)

Water solubility  $20 \,^{\circ}$ C  $10 \,^{\circ}$ C

Partition coefficient

Partition coefficient n-octanol/water (log value): 1,25 (pH value: 7, 20 °C) (ECHA)

Vapour pressure 475 hPa at 20 °C

Density and/or relative density

Density  $1,33 \, {}^{9}/_{cm^{3}}$  at 20 °C (ECHA)

Relative vapour density 2,93 (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: There is no additional information.

United Kingdom (en) Page 8 / 19

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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### 10.2 Chemical stability

May cause decomposition by long-term light influence.

# 10.3 Possibility of hazardous reactions

**Danger of explosion:** Alkali metals, Nitric acid, Aluminium, Amines, Nitrogen oxides (NOx), **Exothermic reaction with:** Alkaline earth metal, Metal powder, Strong alkali

#### 10.4 Conditions to avoid

Direct light irradiation. UV-radiation/sunlight.

#### 10.5 Incompatible materials

Steel, aluminium, different plastics, Rubber articles

### 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**

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful if swallowed or in contact with skin.

Acute toxicity								
Exposure route	Endpoint	Value	Species	Method	Source			
oral	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA			
dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA			

### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### 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

Suspected of causing cancer.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

United Kingdom (en) Page 9 / 19

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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



# Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

# 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, nausea

#### • If in eyes

Causes serious eye irritation, corneal opacity

#### If inhaled

vertigo, dizziness, fatigue, narcosis

#### • If on skin

causes skin irritation

#### Other information

Other adverse effects: Liver and kidney damage, Circulatory collapse, Headache, Dyspnoea, Blood pressure drop

# 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

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)								
Endpoint Value		Species	Source	Exposure time				
LC50	193 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	96 h				

Aquatic toxicity (acute) of components								
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
Amylene	513-35-9	LC50	4,99 <sup>mg</sup> / <sub>l</sub>	fish	96 h			
Amylene	513-35-9	EC50	3,84 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h			
Amylene	513-35-9	ErC50	12 <sup>mg</sup> / <sub>l</sub>	algae	72 h			

United Kingdom (en) Page 10 / 19

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



# Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47

# **Aquatic toxicity (chronic)**

Endpoint	Value	Species	Source	Exposure time
LC50	471 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	8 d
EC50	2.590 <sup>mg</sup> / <sub>l</sub>	microorganisms	ECHA	40 min

# 12.2 Persistence and degradability

Theoretical Oxygen Demand:  $0.3768 \, ^{mg}/_{mg}$  Theoretical Carbon Dioxide:  $0.5182 \, ^{mg}/_{mg}$ 

### **Biodegradation**

The substance is readily biodegradable.

# **Process of degradability**

Process	Degradation rate	Time
biotic/abiotic	5 - 26 %	28 d
oxygen depletion	68 %	28 d

# **Degradability of components**

Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Amylene	513-35-9	oxygen deple- tion	7 %	28 d		ECHA

#### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)	1,25 (pH value: 7, 20 °C) (ECHA)
BCF	39 (ECHA)

# 12.4 Mobility in soil

Henry's law constant	0,002 <sup>Pa m³</sup> / <sub>mol</sub> at 24,8 °C (ECHA)
----------------------	---

# 12.5 Results of PBT and vPvB assessment

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

# 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.

United Kingdom (en) Page 11 / 19

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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



# **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 4** irritant - skin irritation and eye damage

**HP7** carcinogenic

#### 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 1593
IMDG-Code	UN 1593
ICAO-TI	UN 1593

# 14.2 UN proper shipping name

ADRRID	DICHLOROMETHANE
IMDG-Code	DICHLOROMETHANE
ICAO-TI	Dichloromethane

# 14.3 Transport hazard class(es)

ADRRID	6.1
IMDG-Code	6.1
ICAO-TI	6.1

#### 14.4 Packing group

ADRRID	III
IMDG-Code	III
ICAO-TI	III

United Kingdom (en) Page 12 / 19

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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



# 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 DICHLOROMETHANE

Particulars in the transport document UN1593, DICHLOROMETHANE, 6.1, III, (E)

Classification code T1
Danger label(s) 6.1



Special provisions (SP) 516, 802(ADN)

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
Transport category (TC) 2
Tunnel restriction code (TRC) E
Hazard identification No 60
Emergency Action Code 2Z

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

Classification code T1

Danger label(s) 6.1



Special provisions (SP) 516, 802(ADN)

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
Transport category (TC) 2
Hazard identification No 60

United Kingdom (en) Page 13 / 19



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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name DICHLOROMETHANE

Particulars in the shipper's declaration UN1593, DICHLOROMETHANE, 6.1, III

Marine pollutant Danger label(s) 6.1

Special provisions (SP) Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L

EmS F-A, S-A

Stowage category A

Segregation group 10 - Liquid halogenated hydrocarbons

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

Proper shipping name Dichloromethane

Particulars in the shipper's declaration UN1593, Dichloromethane, 6.1, III

Danger label(s) 6.1



Excepted quantities (EQ) E1
Limited quantities (LQ) 2 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 application of lower and upper-tier requirements	Notes
	not assigned		

### **Deco-Paint Directive**

VOC content	100 %
VOC content	1.330 <sup>g</sup> / <sub>l</sub>

United Kingdom (en) Page 14 / 19

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



#### **Dichloromethane ROTISOLV®** ≥99,9 %, GC Ultra Grade

article number: KK47

# **Industrial Emissions Directive (IED)**

VOC content	100 %
VOC content	1.330 <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)

Pollutant release and transfer registers (PRTR)			
Name of substance	CAS No	Remarks	Threshold for releases to

#### air (kg/year) Dichloromethane 75-09-2 1 000

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

# **List of pollutants (WFD)**

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Dichloromethane	dichloromethane	75-09-2	b)	
Dichloromethane	dichloromethane	75-09-2	c)	
Dichloromethane	Organohalogen compounds and substances which may form such compounds in the aquatic environment		a)	
Dichloromethane	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

Indicative list of the main pollutants List of priority substances in the field of water policy Environmental Quality Standards for Priority Substances and certain other pollutants a) b) c)

# 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

United Kingdom (en) Page 15 / 19

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

### Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade



article number: KK47

### 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

Name of substance	Name acc. to inventory	CAS No	No
Dichloromethane	Dichloromethane	75-09-2	59
Dichloromethane	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3

#### 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
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

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

Taiwan Chemical Substance Inventory

**TSCA** Toxic Substance Control Act

United Kingdom (en) Page 16 / 19

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

# Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



# 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 (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
15.1		Pollutant release and transfer registers (PRTR): change in the listing (table)	yes
15.1		List of pollutants (WFD): change in the listing (table)	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes

# **Abbreviations and acronyms**

Alaba	Descriptions of weed abbreviations
Abbr.	Descriptions of used abbreviations
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
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
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
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
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)

United Kingdom (en) Page 17 / 19

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

# Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade

article number: KK47



Abbr.	Descriptions of used abbreviations
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
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
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
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
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

# 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)

United Kingdom (en) Page 18 / 19

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



# **Dichloromethane ROTISOLV® ≥99,9 %, GC Ultra Grade**

article number: KK47

Code	Text
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

# 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 19 / 19