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



Dichloromethane ROTIDRY® ≥99,8 % (≤50 ppm H₂O)

article number: **AE03** Version: **6.0 en** Replaces version of: 2023-07-27 Version: (5)

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

1.1 Product identifier

Identification of the substance	Dichloromethane ROTIDRY® ≥99,8 % (≤50 ppm H₂O)
Article number	AE03
Registration number (REACH)	01-2119480404-41-xxxx
Index number in CLP Annex VI	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:

Uses advised against:

Laboratory chemical Laboratory and analytical use

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 Centre Beaumont Hospital	Beaumont Road	Dublin 9	+353 1 809 2166	https:// www.poisons.ie/

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



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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	ection Hazard class		Hazard class and category	Hazard statement
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	3.3 Serious eye damage/eye irritation		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 according to Regulation (EC) No 1272/2008 (CLP)

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

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Symbol(s)



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



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H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/eye protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.

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	Dichloromethane
Molecular formula	CH_2CI_2
Molar mass	84,93 ^g / _{mol}
REACH Reg. No	01-2119480404-41-xxxx
CAS No	75-09-2
EC No	200-838-9
Index No	602-004-00-3

To stabilise:

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

Remarks

For full text of abbreviations: see SECTION 16

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 case of skin irritation, consult a physician.



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



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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).

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 (CO₂)

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.

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



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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

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.

7.2 Conditions for safe storage, including any incompatibilities

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			Н	2017/ 164/EU
IE	dichloromethane	75-09-2	OELV	100	353	200	706			н	S.I. No. 619 of 2001

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Notation Ceiling-C H STEL TWA	Ceiling value is a limit value above which exposure should not occur Absorbed through the skin 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) 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)

Human health values

Relevant DNELs and other threshold levels									
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time					
DNEL	706 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects					
DNEL	176 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects					
DNEL	12 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	0,31 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)					
PNEC	0,031 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)					
PNEC	26 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)					
PNEC	2,57 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)					
PNEC	0,26 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)					
PNEC	0,33 ^{mg} / _{kg}	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 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)	
Amylene	513-35-9	PNEC	0,37 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)	
Amylene	513-35-9	PNEC	5,77 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)	
Amylene	513-35-9	PNEC	8,1 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)	
Amylene	513-35-9	PNEC	8,1 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)	
Amylene	513-35-9	PNEC	1,44 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)	

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



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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 consider-able 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.

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



Dichloromethane ROTIDRY® ≥99,8 % (≤50 ppm H₂O)

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SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical pro	perties
	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 range	40 °C at 1.013 hPa (ECHA)
	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 ^g / _l at 20 °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 ^g / _{cm³} 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 classes:	hazard classes acc. to GHS (physical hazards): not relevant

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



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Other safety characteristics:

Temperature class (EU, acc. to ATEX)

T1 Maximum permissible surface temperature on the equipment: 450°C

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 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		
dermal	LD50	>2.000 ^{mg} / _{kg}	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.

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



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Reproductive toxicity

Shall not be classified as a reproductive toxicant.

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 $\ge 0,1\%$.

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.

Aquatic toxicity (acute)						
Endpoint	Value	Species	Source	Exposure time		
LC50	193 ^{mg} / _l	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 ^{mg} / _l	fish	96 h
Amylene	513-35-9	EC50	3,84 ^{mg} / _l	aquatic invertebrates	48 h
Amylene	513-35-9	ErC50	12 ^{mg} / _l	algae	72 h

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Aquatic toxicity (chronic)						
Endpoint	Value	Species	Source	Exposure time		
LC50	471 ^{mg} / _l	fish	ECHA	8 d		
EC50	2.590 ^{mg} / _l	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 ^{Pa m³} / _{mol} 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 $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

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

Dichloromethane ROTIDRY $\otimes \geq 99,8 \% (\leq 50 \text{ ppm H}_2\text{O})$



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SECTION 13: Disposal considerations

Waste treatment methods 13.1



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
- HP 7 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

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- **14.5** Environmental hazardsnon-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	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
Regulations concerning the International Carri information	age of Dangerous Goods by Rail (RID)Additional
Classification code	Τ1
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
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

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Dichloromethane ROTIDRY® \geq 99,8 % (\leq 50 ppm H₂O)



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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 (I	CAO-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

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with	angerous substances with restrictions (REACH, Annex XVII)						
Name of substance	Name acc. to inventory	CAS No	Restriction	Νο			
Dichloromethane	dichloromethane	75-09-2	R59	59			
Dichloromethane	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3			
Dichloromethane	substances in tattoo inks and perman- ent make-up		R75	75			

Legend R3

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

a can be used as fuel in decorative oil lamps for supply to the general public, and
 a 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 requirements 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";

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





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Legend

R59

(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.'; 1. Paint strippers containing dichloromethane in a concentration equal to or greater than 0,1 % by weight shall not be:

placed on the market for the first time for supply to the general public or to professionals after 6 December 2010; placed on the market for supply to the general public or to professionals after 6 December 2011; used by professionals after 6 June 2012. (a) (b) (c)

For the purposes of this entry:

For the purposes of this entry: (i) 'professional' means any natural or legal person, including workers and self-employed workers undertaking paint stripping in the course of their professional activity outside an industrial installation; (ii) 'industrial installation' means a facility used for paint stripping activities. 2. By way of derogation from paragraph 1, Member States may allow on their territories and for certain activities the use, by specifically trained professionals, of paint strippers containing dichloromethane and may allow the placing on the market of such paint strippers for supply to those professionals. Member States making use of this derogation shall define appropriate provisions for the protection of the health and safety of those professionals using paint strippers containing dichloromethane and shall inform the Commission thereof

thereof

Those provisions shall include a requirement that a professional shall hold a certificate that is accepted by the Mem-ber State in which that professional operates, or provide other documentary evidence to that effect, or be otherwise approved by that Member State, so as to demonstrate proper training and competence to safely use paint strippers containing dichloromethane.

The Commission shall prepare a list of the Member States which have made use of the derogation in this paragraph

and make it publicly available over the Internet. 3. A professional benefiting from the derogation referred to in paragraph 2 shall operate only in Member States which have made use of that derogation. The training referred to in paragraph 2 shall cover as a minimum: (a) awareness, evaluation and management of risks to health, including information on existing substitutes or pro-cesses, which under their conditions of use are less hazardous to the health and safety of workers; (b) use of adequate ventilation;

(c) use of abequate ventuation;
 (c) use of appropriate personal protective equipment that complies with Directive 89/686/EEC.
 Employers and self-employed workers shall preferably replace dichloromethane with a chemical agent or process which, under its conditions of use, presents no risk, or a lower risk, to the health and safety of workers.
 Professional shall apply all relevant safety measures in practice, including the use of personal protective equipment.
 Without prejudice to other Community legislation on workers protection, paint strippers containing dichloromethane in concentrations equal to or greater than 0,1 % by weight may be used in industrial installations only if the following and protective measures.

(a) effective ventilation in all processing areas, in particular for the wet processing and the drying of stripped articles:
local exhaust ventilation at strip tanks supplemented by forced ventilation in those areas, so as to minimise exposure and to ensure compliance, where technically feasible, with relevant occupational exposure limits;
(b) measures to minimise evaporation from strip tanks comprising: lids for covering strip tanks except during loading to a strip tanks evaporation for the strip tanks comprising.

and unloading; suitable loading and unloading arrangements for strip tanks; and wash tanks with water or brine to re-(c) measures for the safe handling of dichloromethane in strip tanks comprising: pumps and pipework for transfer-

ring paint stripper to and from strip tanks; and suitable arrangements for safe cleaning of tanks and removal of sludde

(d) personal protective equipment that complies with Directive 89/686/EEC comprising: suitable protective gloves, evant occupational exposure limits cannot be otherwise achieved;

(e) adequate information, instruction and training for operators in the use of such equipment.

5. Without prejudice to other Community provisions concerning the classification, labelling and packaging of sub-stances and mixtures, by 6 December 2011 paint strippers containing dichloromethane in a concentration equal to or greater than 0,1 % by weight shall be visibly, legibly and indelibly marked as follows: 'Restricted to industrial use and to professionals approved in certain EU Member States - verify where use is allowed.'

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

Dichloromethane ROTIDRY® \geq 99,8 % (\leq 50 ppm H₂O)



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tattooing purposes.

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



Dichloromethane ROTIDRY® ≥99,8 % (≤50 ppm H₂O)

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Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

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

Not listed.

Seveso Directive

2012/18/EU (Seveso III)					
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes		
	not assigned				

Deco-Paint Directive

VOC content	100 %
VOC content	1.330 ^g / _l

Industrial Emissions Directive (IED)

VOC content	100 %
VOC content	1.330 ^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)

Pollutant release and transfer registers (PRTR)				
Name of substance CAS No Remarks Threshold for releases to (kg/year)				
Dichloromethane	75-09-2		1 000	

Water Framework Directive (WFD)

Name acc. to inventory	CAS No	Listed in	Remarks
dichloromethane	75-09-2	b)	
dichloromethane	75-09-2	c)	
	dichloromethane	dichloromethane 75-09-2	dichloromethane 75-09-2 b)

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



Dichloromethane ROTIDRY® ≥99,8 % (≤50 ppm H₂O)

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List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Dichloromethane	Organohalogen compounds and substances which may form such compounds in the aquatic envir- onment		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

a) b) c)

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

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
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed

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



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Country	Inventory	Status
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed
CICR CSCL-ENCS DSL ECSI IECSC INSQ KECI NCI NZIOC PICCS REACH Reg. TCSI	Domestic Substances List EC Substance Inventory (I Inventory of Existing Chen National Inventory of Che Korea Existing Chemicals National Chemical Invent New Zealand Inventory of	Control Regulation Chemical Substances (CSCL-ENCS) (DSL) EINECS, ELINCS, NLP) mical Substances Produced or Imported in China mical Substances Inventory ory of Chemicals nemicals and Chemical Substances (PICCS) nces ce Inventory

15.2 Chemical safety assessment

According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

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: 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	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		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	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

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



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Abbreviations and acronyms

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 concern- ing 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
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 identi- fier 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 Na- tions
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

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



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Abbr.	Descriptions of used abbreviations
ppm	Parts per million
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)
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
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
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.