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



date of compilation: 2015-10-20

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Acetonitrile ROTISOLV® ≥99,9 %, UV/IR-Grade

article number: **T907** Version: **5.0 en** Replaces version of: 2021-04-06 Version: (4)

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

1.1 Product identifier

Identification of the substanceAcetonitrile ROTISOLV® ≥99,9 %, UV/IR-GradeArticle numberT907EC number200-835-2CAS number75-05-8

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).

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

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)	4	Acute Tox. 4	H302
3.1D	Acute toxicity (dermal)	4	Acute Tox. 4	H312

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Section	Hazard class		Hazard class and category	Hazard statement	
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332	
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319	

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

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

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS02, GHS07



Hazard statements

H225	Highly flammable liquid and vapour
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled
H319	Causes serious eye irritation

Precautionary statements

Precautionary statements - prevention

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

Precautionary statements - response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Precautionary statements - storage

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

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.

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SECTION 3: Composition/information on ingredients

3.1	Substances	
	Name of substance	Acetonitrile
	Molecular formula	C_2H_3N
	Molar mass	41,05 ^g / _{mol}
	CAS No	75-05-8
	EC No	200-835-2

S	Substance, Specific Conc. Limits, M-factors, ATE					
	Specific Conc. Limits	M-Factors	ATE	Exposure route		
	-	-	469 ^{mg} / _{kg} 1.100 ^{mg} / _{kg} 11 ^{mg} / _l /4h	oral dermal inhalation: vapour		

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

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

Following skin contact

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

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

Rinse mouth with water (only if the person is conscious). Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

After eye contact: Irritant effects, Conjunctival redness of the eyes, Following skin contact: Localised redness, oedema, pruritis and/or pain, Following ingestion: Vomiting, Irritation, Headaches and dizziness may occur, Following inhalation: Cough, pain, choking, and breathing difficulties

4.3 Indication of any immediate medical attention and special treatment needed

none

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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

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

Hazardous combustion products

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

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

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe vapour/spray. Avoidance of ignition sources.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

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

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

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

of vapours into cellars, flues and ditches.

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Ground/bond container and receiving equipment.

Ventilation requirements

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

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

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	acetonitrile	75-05-8	IOELV	40	70					Н	2006/15/ EC

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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
GB	acetonitrile	75-05-8	WEL	40	68	60	102				EH40/ 2005

Notation

Ceiling-C

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) H STEL

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 TWA 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	68 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	68 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
DNEL	68 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
DNEL	68 mg/m³	human, inhalatory	worker (industry)	acute - local effects
DNEL	32,2 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	10 ^{mg} /l	aquatic organisms	freshwater	short-term (single instance)					
PNEC	1 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)					
PNEC	32 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)					
PNEC	40,5 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)					
PNEC	4,05 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)					
PNEC	2,23 ^{mg} / _{kg}	terrestrial organisms	soil	short-term (single instance)					

8.2 **Exposure controls**

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

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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

Butyl caoutchouc (butyl rubber)

material thickness

0,5 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

• other protection measures

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

Flame-retardant protective clothing.

Respiratory protection



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

Environmental exposure controls

Keep away from drains, surface and ground water.

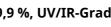
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic - mild sweet
Melting point/freezing point	-45,7 °C at 101.325 Pa (ECHA)
Boiling point or initial boiling point and boiling range	81,65 °C at 1.013 hPa (ECHA)
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	50 g/m³ (LEL) - 274 g/m³ (UEL) / 4,4 vol% (LEL) - 16 vol% (UEL)

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	Flash point	2 °C at 1.013 hPa (c.c.)				
	Auto-ignition temperature	524 °C at 101.325 Pa (ECHA) (auto-ignition tem perature (liquids and gases))				
	Decomposition temperature	not relevant				
	pH (value)	9 – 10 (20 °C)				
	Kinematic viscosity	0,443 ^{mm²} / _s at 20 °C				
	Dynamic viscosity	0,35 mPa s at 20 °C				
	Solubility(ies)					
	Water solubility	miscible in any proportion				
	Partition coefficient					
	Partition coefficient n-octanol/water (log value):	-0,34 (pH value: ~7, 25 °C) (ECHA)				
	Soil organic carbon/water (log KOC)	0,654 (ECHA)				
	Vapour pressure	94,51 hPa at 20 °C				
	Density and/or relative density					
	Density	0,79 ^g / _{cm³} at 20 °C (ECHA)				
	Relative vapour density	1,42 (air = 1)				
	Particle characteristics	not relevant (liquid)				
	Other safety parameters					
	Oxidising properties	none				
9.2	Other information					
	Information with regard to physical hazard classes:	There is no additional information.				
	Other safety characteristics:					
	Miscibility	completely miscible with water				
	Refractive index	1,344				

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.

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10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Peroxides, Strong acid

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

- **10.5 Incompatible materials** 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

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

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	469 ^{mg} / _{kg}	mouse		ECHA
dermal	LD50	>2.000 ^{mg} / _{kg}	rabbit		ECHA

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

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

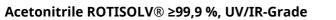
Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

vomiting, nausea, dizziness

• If in eyes

Causes serious eye irritation

• If inhaled

cough, pain, choking, and breathing difficulties

• If on skin

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc

Other information

none

11.2 Endocrine disrupting properties

Not listed.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)				
Endpoint	Value	Species	Source	Exposure time
LC50	1.640 ^{mg} / _l	fish	ECHA	96 h
ErC50	9.696 ^{mg} / _l	algae	ECHA	72 h

Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
EC50	>1.000 ^{mg} / _l	microorganisms	ECHA	30 min

12.2 Persistence and degradability

Biodegradation

The substance is readily biodegradable.

Process of degradability

	Process	Degradation rate	Time
	biotic/abiotic	98 %	28 d
	carbon dioxide generation	70 %	21 d

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12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

-0,34 (pH value: ~7, 25 °C) (ECHA)	n-octanol/water (log KOW)
------------------------------------	---------------------------

12.4 Mobility in soil

Henry's law constant	3,5 ^{Pa m³} / _{mol} at 20 °C (ECHA)
The Organic Carbon normalised adsorption coefficient	0,654 (ECHA)

12.5 Results of PBT and vPvB assessment

Data are not available.

- **12.6 Endocrine disrupting properties** Not listed.
- 12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



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

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

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

13.2 Relevant provisions relating to waste

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

Properties of waste which render it hazardous

- HP 3 flammable
- HP 4 irritant skin irritation and eye damage
- 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.

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SEC	SECTION 14: Transport information					
14.1	UN number or ID number					
	ADRRID	UN 1648				
	IMDG-Code	UN 1648				
	ICAO-TI	UN 1648				
14.2	UN proper shipping name					
	ADRRID	ACETONITRILE				
	IMDG-Code	ACETONITRILE				
	ICAO-TI	Acetonitrile				
14.3	Transport hazard class(es)					
	ADRRID	3				
	IMDG-Code	3				
	ICAO-TI	3				
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 co	omplied within the premises.				
14.7	Maritime transport in bulk according to IMO ins	struments				
	The cargo is not intended to be carried in bulk.					
14.8	Information for each of the UN Model Regulation	ons				
	Agreement concerning the International Carria information	ge of Dangerous Goods by Road (ADR)Additional				
	Proper shipping name	ACETONITRILE				
	Particulars in the transport document	UN1648, ACETONITRILE, 3, II, (D/E)				
	Classification code	F1				

3

Danger label(s)

Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D/E

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

Hazard identification No	33
Emergency Action Code	2YE
Regulations concerning the International Carr information	riage of Dangerous Goods by Rail (RID)Additional
Classification code	F1
Danger label(s)	3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Hazard identification No	33
International Maritime Dangerous Goods Cod	e (IMDG) - Additional information
Proper shipping name	ACETONITRILE
Particulars in the shipper's declaration	UN1648, ACETONITRILE, 3, II, 2°C c.c.
Marine pollutant	-
Danger label(s)	3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, S-D
Stowage category	В
International Civil Aviation Organization (ICA	O-IATA/DGR) - Additional information
Proper shipping name	Acetonitrile
Particulars in the shipper's declaration	UN1648, Acetonitrile, 3, II
Danger label(s)	3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
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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)				
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements		Notes
P5c	flammable liquids (cat. 2, 3)	5.000	50.000	51)

Notation

51) Flammable liquids, categories 2 or 3 not covered by P5a and P5b

Deco-Paint Directive

VOC content	100 % 790 ⁹ /l
	•

Industrial Emissions Directive (IED)

VOC content	100 %
VOC content	790 ^g /l

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

not listed

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

not listed

Water Framework Directive (WFD)

not listed

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

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

not listed

Regulation on persistent organic pollutants (POP)

not listed

National regulations(GB)

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

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

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 as "ACTIVE"

Legend

Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS) Domestic Substances List (DSL) EC Substance Inventory (EINECS, ELINCS, NLP) Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances AIIC CICR CSCL-ENCS DSL ECSI IECSC INSQ KECI Korea Existing Chemicals Inventory NZIOC New Zealand Inventory of Chemicals PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS) REACH Reg. REACH registered substances TCSI Taiwan Chemical Substance Inventory TCSI TSCA

Toxic Substance Control Act

15.2 Chemical Safety Assessment

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

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

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SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety relev- ant
1.1	Index No: 608-001-00-3		yes
1.1		EC number: 200-835-2	yes
1.1	EC number: 200-835-2	CAS number: 75-05-8	yes
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.1		The most important adverse physicochemical, human health and environmental effects: The product is combustible and can be ignited by potential ignition sources.	yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.	yes
3.1	Index No: 608-001-00-3		yes
9.2	Temperature class (EU, acc. to ATEX): T1 (Maximum permissible surface temperature on the equipment: 450°C)		yes
11.1		Acute toxicity: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic): change in the listing (table)	yes
14.1	UN number: 1648	UN number or ID number	yes
14.1		ADRRID: UN 1648	yes
14.1		IMDG-Code: UN 1648	yes
14.1		ICAO-TI: UN 1648	yes
14.2	UN proper shipping name: ACETONITRILE	UN proper shipping name	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety relev ant
14.2	Hazardous ingredients: Acetonitrile		yes
14.2		ADRRID: ACETONITRILE	yes
14.2		IMDG-Code: ACETONITRILE	yes
14.2		ICAO-TI: Acetonitrile	yes
14.3	Transport hazard class(es): class 3 hazard - flammable liquids	Transport hazard class(es)	yes
14.3	Class: 3 (flammable liquids)		yes
14.3		ADRRID: 3	yes
14.3		IMDG-Code: 3	yes
14.3		ICAO-TI: 3	yes
14.4	Packing group: II (substance presenting medium danger)	Packing group	yes
14.4		ADRRID: II	yes
14.4		IMDG-Code: II	yes
14.4		ICAO-TI: II	yes
14.5	Environmental hazards: none (non-environmentally hazardous acc. to the dangerous goods regulations)	Environmental hazards: non-environmentally hazardous acc. to the dan- gerous goods regulations	yes
14.8	UN number: 1648		yes
14.8	Class: 3		yes
14.8	Packing group: II		yes
14.8	Emergency Action Code: 2YE		yes
14.8		Emergency Action Code: 2YE	yes
14.8		Regulations concerning the International Car- riage of Dangerous Goods by Rail (RID)Addition- al information	yes
14.8		Classification code: F1	yes
14.8		Danger label(s): 3	yes

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

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Section	Former entry (text/value)	Actual entry (text/value)	Safety relev ant
14.8		Danger label(s): change in the listing (table)	yes
14.8		Excepted quantities (EQ): E2	yes
14.8		Limited quantities (LQ): 1 L	yes
14.8		Transport category (TC): 2	yes
14.8		Hazard identification No: 33	yes
14.8	UN number: 1648		yes
14.8	Particulars in the shipper's declaration: UN1648, ACETONITRILE, 3, II, 12,8°C c.c.	Particulars in the shipper's declaration: UN1648, ACETONITRILE, 3, II, 2°C c.c.	yes
14.8	Class: 3		yes
14.8	Packing group: II		yes
14.8	UN number: 1648		yes
14.8	Class: 3		yes
14.8	Packing group: II		yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Danger label(s): change in the listing (table)	yes
15.1	• Regulation 649/2012/EU concerning the ex- port and import of hazardous chemicals (PIC): Not listed.		yes
15.1	• Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS): Not listed.		yes
15.1	• Regulation 850/2004/EC on persistent organic pollutants (POP): Not listed.		yes
15.1	• Restrictions according to REACH, Annex XVII		yes
15.1		• Restrictions according to REACH, Annex XVII: change in the listing (table)	yes
15.1	• Restrictions according to REACH, Title VIII: None.		yes
15.1	• Directive 75/324/EEC relating to aerosol dispensers		yes
15.1	Filling batch		yes
15.1		Deco-Paint Directive	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1		VOC content: 100 % 790 ^g / _l	yes
15.1		Industrial Emissions Directive (IED)	yes
15.1		VOC content: 100 %	yes
15.1	Regulation 111/2005/EC laying down rules for the monitoring of trade between the Com- munity and third countries in drug precursors: not listed	VOC content: 790 ^g / _l	yes
15.1		Regulation on the marketing and use of explos- ives precursors: not listed	yes
15.1		Regulation on substances that deplete the ozone layer (ODS): not listed	yes
15.1		Regulation concerning the export and import of hazardous chemicals (PIC): not listed	yes
15.1		Regulation on persistent organic pollutants (POP): not listed	yes
15.1		National regulations(GB)	yes
15.1		List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list: not listed	yes
15.1		Restrictions according to GB REACH, Annex 17	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes
15.1	Deco-Paint Directive (2004/42/EC)	Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restric- tions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	yes
15.1	VOC content: 100 % 782 ^g / _l		yes
15.1	National inventories: Substance is listed in the following national in- ventories:		yes
15.1		National inventories: change in the listing (table)	yes
15.1		National inventories	yes
15.1		National inventories: change in the listing (table)	yes

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Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in imple mentation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
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)
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 ident fier of substances commercially available within the EU (European Union)
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 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
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
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 9 lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during 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

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Abbr.	Descriptions of used abbreviations
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)
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)

Code	Text
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Disclaimer

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