

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: **AE00**  
Version: **1.0 en**

date of compilation: 2018-05-30

## SECTION 1: Identification

### 1.1 Product identifier

Identification of the substance	<b>Acetonitrile</b>
Article number	AE00
Registration number (REACH)	01-2119471307-38-xxxx
Index No	608-001-00-3
EC number	200-835-2
CAS number	75-05-8

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

<b>Identified uses:</b>	laboratory chemical laboratory and analytical use
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### 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](mailto:sicherheit@carlroth.de)

**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet : Department Health, Safety and Environment

**e-mail (competent person)** : [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

### 1.4 Emergency telephone number

Emergency information service **Poison Centre Munich: +49/(0)89 19240**

## SECTION 2: Hazard(s) identification

### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Classification acc. to GHS			
Section	Hazard class	Hazard class and category	Hazard statement
A.10	acute toxicity (oral)	(Acute Tox. 4)	H302
A.1D	acute toxicity (dermal)	(Acute Tox. 4)	H312
A.1I	acute toxicity (inhal.)	(Acute Tox. 4)	H332
A.3	serious eye damage/eye irritation	(Eye Irrit. 2)	H319
B.6	flammable liquid	(Flam. Liq. 2)	H225

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: AE00

## Supplemental hazard information

Code	Supplemental hazard information
HNOC001	may be harmful if swallowed (GHS category 5: acutely toxic - oral)
HNOC002	may be harmful in contact with skin (GHS category 5: acutely toxic - dermal)

## 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

**Signal word**

**Danger**

### Pictograms



### Hazard statements

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

### Precautionary statements

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

Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/.../equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash ... thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/eye protection/face protection.  
Wear protective gloves/protective clothing.  
Wear eye protection/face protection.

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

If swallowed: Call a poison center/doctor/.../ if you feel unwell.  
If on skin: Wash with plenty of water.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a poison center/doctor if you feel unwell.  
Specific treatment (see ... on this label).  
Rinse mouth.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use carbon dioxide, powder extinguisher or water spray to extinguish.

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

Store in a well-ventilated place. Keep cool.

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: **AE00**

## Precautionary statements - disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

## Labelling of packages where the contents do not exceed 125 ml

Signal word: **Danger**

Symbol(s)



HNOC001  
HNOC002

May be harmful if swallowed (GHS category 5: acutely toxic - oral).  
May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).

## 2.3 Other hazards

There is no additional information.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Name of substance	Acetonitrile
Index No	608-001-00-3
Registration number (REACH)	01-2119471307-38-xxxx
EC number	200-835-2
CAS number	75-05-8
Molecular formula	C <sub>2</sub> H <sub>3</sub> N
Molar mass	41.05 g/mol

## 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 physician.

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



**Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)**

article number: **AE00**

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

After eye contact: Irritant effects, Conjunctival redness of the eyes,  
Following skin contact: Localized redness, edema, pruritis and/or pain,  
After 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

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings  
water spray, foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.  
Vapours can form explosive mixtures with air.

#### Hazardous combustion products

In case of fire may be liberated: nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

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. Avoid contact with skin, eyes and clothes. Do not breathe vapor/spray. Avoidance of ignition sources.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Explosive properties.

### 6.3 Methods and material for containment and cleaning up

#### Advices on how to contain a spill

Covering of drains.

#### Advices on how to clean up a spill

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

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: AE00

## 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

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 compatible storage of chemicals.

#### Consideration of other advice

Ground/bond container and receiving equipment.

#### • Ventilation requirements

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)

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



## Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: **AE00**

Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
US	acetonitrile	75-05-8		TLV®	20				ACGIH® 2018
US	acetonitrile	75-05-8		PEL	40	70			29 CFR 1910.1000

### Notation

STEL 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)

TWA 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)

### Relevant DNELs/DMELs/PNECs and other threshold levels

#### • human health values

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	68 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	68 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
DNEL	68 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
DNEL	68 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
DNEL	32.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

#### • environment values

Endpoint	Threshold level	Environmental compartment	Exposure time
PNEC	10 mg/l	water	intermittent release
PNEC	10 mg/l	freshwater	short-term (single instance)
PNEC	1 mg/l	marine water	short-term (single instance)
PNEC	32 mg/l	sewage treatment plant (STP)	short-term (single instance)
PNEC	7.53 mg/kg	freshwater sediment	short-term (single instance)
PNEC	2.41 mg/kg	soil	short-term (single instance)

## 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggle with side protection.

#### Skin protection



# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



## Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: **AE00**

### • 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.

### • 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 vapors with a boiling point of > 65 °C , color 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

#### Appearance

Physical state	liquid (fluid)
Color	colorless
Odor	characteristic mild sweet
Odor threshold	No data available

#### Other physical and chemical parameters

pH (value)	This information is not available.
Melting point/freezing point	-45.7 °C
Initial boiling point and boiling range	81.6 °C at 1,013 hPa
Flash point	12.8 °C
Evaporation rate	no data available
Flammability (solid, gas)	not relevant (fluid)
<u>Explosive limits</u>	
• lower explosion limit (LEL)	4.4 vol% (50 g/m <sup>3</sup> )
• upper explosion limit (UEL)	16 vol% (274 g/m <sup>3</sup> )
Explosion limits of dust clouds	not relevant

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



## Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: **AE00**

Vapor pressure	94.51 hPa at 20 °C
Density	0.782 g/cm <sup>3</sup> at 20 °C
Vapor density	1.42 (air = 1)
Bulk density	Not applicable
Relative density	Information on this property is not available.
<u>Solubility(ies)</u>	
Water solubility	1,000 g/l at 25 °C
<u>Partition coefficient</u>	
n-octanol/water (log KOW)	-0.34
Soil organic carbon/water (log KOC)	0.654 (ECHA)
Auto-ignition temperature	524 °C - ECHA 524 °C
Decomposition temperature	no data available
Viscosity	
• dynamic viscosity	0.39 mPa s at 20 °C
Explosive properties	Shall not be classified as explosive
Oxidizing properties	none

### 9.2 Other information

Refractive index	1.344
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Risk of ignition. Vapours can form explosive mixtures with air.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: Peroxides, Strong oxidizer, Strong acid

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Rubber articles

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.



# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: AE00

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Exposure route	Endpoint	Value	Species	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 sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor 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.

#### Symptoms related to the physical, chemical and toxicological characteristics

- **If swallowed**

nausea, vomiting, dizziness

- **If in eyes**

slightly irritant but not relevant for classification

- **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

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: AE00

## SECTION 12: Ecological information

### 12.1 Toxicity

acc. to 1272/2008/EC: 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
EC50	3,560 mg/l	algae	ECHA	72 h
ErC50	9,696 mg/l	algae	ECHA	72 h

#### Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
LC50	>102 mg/l	fish	ECHA	7 d
LOEC	>102 mg/l	fish	ECHA	21 d
NOEC	102 mg/l	fish	ECHA	21 d

### 12.2 Process of degradability

The substance is readily biodegradable.

Theoretical Oxygen Demand with nitrification: 3.118 mg/mg

Theoretical Oxygen Demand: 1.559 mg/mg

Theoretical Carbon Dioxide: 2.144 mg/mg

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

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW) -0.34

### 12.4 Mobility in soil

Henry's law constant 3.5 Pa m<sup>3</sup>/mol at 20 °C

The Organic Carbon normalised adsorption coefficient 0.654

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Other adverse effects

Data are not available.

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: **AE00**

## 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/packages

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

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packages

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.

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

14.1	UN number	1648
14.2	UN proper shipping name	<b>ACETONITRILE</b>
	Hazardous ingredients	Acetonitrile
14.3	Transport hazard class(es)	
	Class	3 (flammable liquids)
14.4	Packing group	II (substance presenting medium danger)
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
14.6	<b>Special precautions for user</b>	
	There is no additional information.	
14.7	<b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	
	The cargo is not intended to be carried in bulk.	
14.8	<b>Information for each of the UN Model Regulations</b>	
	• <b>Transport of dangerous goods by road or rail (49 CFR US DOT)</b>	
	UN number	1648

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



## Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: **AE00**

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Proper shipping name	Acetonitrile
Class	3
Packing group	II
Danger label(s)	3



Special provisions (SP)	IB2, T7, TP2
ERG No	127

### • International Maritime Dangerous Goods Code (IMDG)

UN number	1648
Proper shipping name	ACETONITRILE
Particulars in the shipper's declaration	UN1648, ACETONITRILE, 3, II, 12.8°C c.c.
Class	3
Marine pollutant	-
Packing group	II
Danger label(s)	3



Special provisions (SP)	-
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 I
EmS	F-E, S-D
Stowage category	B

### • International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	1648
Proper shipping name	Acetonitrile
Particulars in the shipper's declaration	UN1648, Acetonitrile, 3, II
Class	3
Packing group	II
Danger label(s)	3



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

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: AE00

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

##### Toxic Substance Control Act (TSCA)

Not listed.

##### Superfund Amendment and Reauthorization Act (SARA TITLE III)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

Not listed.

Specific Toxic Chemical Listings (EPCRA Section 313)

Name of substance	CAS No	Wt%	Remarks	Effective date
Acetonitrile	75-05-8	100		1987-01-01

#### CERCLA

##### List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Wt%	Remarks	Statutory code	RCRA waste No.	Final RQ pounds (Kg)
Acetonitrile	75-05-8	100		3 4	U003	5000 (2270)

#### Legend

- 3 "3" indicates that the source is section 112 of the Clean Air Act  
4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

#### Clean Air Act

Not listed.

#### New Jersey Worker and Community Right to Know Act

Name of substance	CAS No	Wt%	Remarks	Classifications	Listed in	Substance number	DOT number
Acetonitrile	75-05-8	100		F3	1 2 3 4 6 8 15 17 18 20 21	0008	1648

#### Legend

- 1 Occupational Safety and Health Administration, 29 CFR 1910-Occupational Safety and Health Standards, Subpart Z-Toxic and Hazardous Substances, July 1, 2008.  
15 "Fire Protection Guide to Hazardous Materials," NFPA 49 (Hazardous Chemicals Data), NFPA 325 (Guide to Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids), and NFPA 704 (Standard System for the Identification of the Hazards of Materials for Emergency Response), National Fire Protection Association (NFPA), 2001.  
17 "2008 Emergency Response Guidebook," Research and Special Programs Administration, U.S. Department of Transportation, 2008.  
18 List of Toxic Release Inventory Chemicals, Section 313, Emergency Planning and Community Right to Know Act (EPCRA), Toxic Release Inventory (TRI) Program, U.S. Environmental Protection Agency, 40 CFR 372.65, July 1, 2008.  
2 "2009 TLVs® and BEIs®, Threshold Limit Values and Biological Exposure Indices," American Conference of Governmental Industrial Hygienists (ACGIH), 2009.

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



## Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: **AE00**

### Legend

- 20 List of Hazardous Substances and Reportable Quantities (RQ), Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), U.S. Environmental Protection Agency, 40 CFR 302, Table 302.4, July 1, 2008.
- 21 21. Hazardous Wastes from the P and U Lists, Resource Conservation and Recovery Act (RCRA), U.S. Environmental Protection Agency, 40 CFR 261.33, July 1, 2008.
- 3 Office of Hazardous Materials Safety, Research and Special Programs Administration, U.S. Department of Transportation, 49 CFR 172.101-Hazardous Materials Table, October 1, 2008.
- 4 "NIOSH Pocket Guide to Chemical Hazards," National Institute for Occupational Safety and Health (NIOSH), U.S. Department of Health and Human Services, No. 2005-149, September 2005.
- 6 "Environmental Hazardous Substance List," New Jersey Department of Environmental Protection, N.J.A.C. 7:1G-2, as printed in the Community Right to Know Survey Instruction Book, 2008.
- 8 Integrated Risk Information System (IRIS) Database for Risk Assessment, Office of Research and Development, National Center for Environmental Assessment, U.S. Environmental Protection Agency (EPA), September 2008.
- F3 Flammable - Third Degree

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Not listed.

### Drug precursors

Not listed.

### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System (HMIS). American Coatings Association.

Category	Rating	Description
Chronic	/	none
Health	2	temporary or minor injury may occur
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

Chronic: Chronic hazard  
Flammability: Flammability hazard  
Health: Health hazard  
Personal protection: Personal protective equipment (PPE) for normal use  
Physical hazard: Reactivity

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

Flammability: Flammability hazard  
Health: Health hazard  
Instability: Instability hazard

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: AE00

## National inventories

Substance is listed in the following national inventories:

Country	National inventories	Status
AU	AICS	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

### Legend

AICS	Australian Inventory of Chemical Substances
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
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information, including date of preparation or last revision

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR § 40 U.S. Department of Transportation
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ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



## Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)

article number: **AE00**

Abbr.	Descriptions of used abbreviations
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
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
IMDG	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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NFPA® 704	National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL	short-term exposure limit
TLV®	Threshold Limit Values
TWA	time-weighted average
vPvB	very Persistent and very Bioaccumulative

### Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- Transport of dangerous goods by road or rail (49 CFR US DOT)
- 49 CFR § 172.101 Hazardous Materials Table (DOT)
- Dangerous Goods Regulations (DGR) for the air transport (IATA)
- International Maritime Dangerous Goods Code (IMDG)



# Safety data sheet

acc. to OSHA, Appendix D to § 1910.1200



**Acetonitrile ROTIDRY® ≥99,9 % (≤10 ppm H<sub>2</sub>O)**

article number: **AE00**

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## List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H225	highly flammable liquid and vapor
H302	harmful if swallowed
H312	harmful in contact with skin
H319	causes serious eye irritation
H332	harmful if inhaled

### Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.