

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Acetonitrile with 0,1 % Formic acid ROTISOLV® ≥99,9 %, LC-MS-Grade

article number: **CP00**  
Version: **GHS 2.0 en**  
Replaces version of: 2021-08-27  
Version: (GHS 1)

date of compilation: 2021-08-27  
Revision: 2024-03-02

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

### 1.1 Product identifier

Identification of the substance **Acetonitrile with 0,1 % Formic acid ROTISOLV®**  
≥99,9 %, LC-MS-Grade

Article number CP00

CAS number 75-05-8

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

Relevant identified uses: Laboratory chemical  
Laboratory and analytical use

Uses advised against: Do not use for 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 sheet: Department Health, Safety and Environment

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

### 1.4 Emergency telephone number

| Name   | Street          | Postal code/city   | Telephone | Website |
|--|-----------------|--------------------|-----------|---------|
| NSW Poisons Information Centre<br>Childrens Hospital | Hawkesbury Road | 2145 Westmead, NSW | 131126    |         |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class                      | Category | Hazard class and category | Hazard statement |
|---------|-----------------------------------|----------|---------------------------|------------------|
| 2.6     | Flammable liquid                  | 2        | Flam. Liq. 2              | H225             |
| 3.1O    | Acute toxicity (oral)             | 4        | Acute Tox. 4              | H302             |
| 3.1D    | Acute toxicity (dermal)           | 4        | Acute Tox. 4              | H312             |
| 3.1I    | Acute toxicity (inhal.)           | 4        | Acute Tox. 4              | H332             |
| 3.3     | Serious eye damage/eye irritation | 2        | Eye Irrit. 2              | H319             |

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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/sparks/open flames/hot surfaces. - No smoking |
| P233 | Keep container tightly closed                                     |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray                  |
| P280 | Wear protective gloves/protective clothing                        |

##### Precautionary statements - response

|                |   |
|----------------|---|
| P302+P352      | IF ON SKIN: Wash with plenty of soap and 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 |
| P312           | Call a POISON CENTER or doctor/physician if you feel unwell   |
| P370+P378      | In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction   |

##### Precautionary statements - storage

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

##### Precautionary statements - disposal

|      |  |
|------|--|
| P501 | Dispose of contents/container to industrial combustion plant |
|------|--|

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

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                   |                                     |
|-------------------|-------------------------------------|
| Name of substance | Acetonitrile with 0,1 % Formic acid |
| Molecular formula | C <sub>2</sub> H <sub>3</sub> N     |
| Molar mass        | 41.05 g/mol                         |
| CAS No            | 75-05-8                             |

#### Impurities/additives/constituents:

| Name of substance | Identifier        | Wt% |
|-------------------|-------------------|-----|
| Formic acid       | CAS No<br>64-18-6 | 0.1 |

#### 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 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 (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air 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.

#### 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

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. Retain contaminated washing water and dispose of it.

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

#### Advice on how to contain a spill

Covering of drains.

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

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

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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## 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 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

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### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No  | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source |
|---------|---------------|---------|------------|-----------|-------------|------------|--------------|-----------------|-------------------|----------|--------|
| AU      | acetonitrile  | 75-05-8 | WES        | 40        | 67          | 60         | 101          |                 |                   | H        | WES    |

#### Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

H Absorbed through the skin

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 of components

| Name of substance | CAS No  | Endpoint | Threshold level | Protection goal, route of exposure | Used in           | Exposure time           |
|-------------------|---------|----------|-----------------|------------------------------------|-------------------|-------------------------|
| Formic acid       | 64-18-6 | DNEL     | 9.5 mg/m³       | human, inhalatory                  | worker (industry) | chronic - local effects |

### Environmental values

#### Relevant PNECs and other threshold levels

| Endpoint | Threshold level | Organism              | Environmental compartment    | 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) |

#### Relevant PNECs of components

| Name of substance | CAS No  | Endpoint | Threshold level | Organism          | Environmental compartment    | Exposure time                |
|-------------------|---------|----------|-----------------|-------------------|------------------------------|------------------------------|
| Formic acid       | 64-18-6 | PNEC     | 2 mg/l          | aquatic organisms | freshwater                   | short-term (single instance) |
| Formic acid       | 64-18-6 | PNEC     | 0.2 mg/l        | aquatic organisms | marine water                 | short-term (single instance) |
| Formic acid       | 64-18-6 | PNEC     | 7.2 mg/l        | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Formic acid       | 64-18-6 | PNEC     | 13.4 mg/kg      | aquatic organisms | freshwater sediment          | short-term (single instance) |
| Formic acid       | 64-18-6 | PNEC     | 1.34 mg/kg      | aquatic organisms | marine sediment              | short-term (single instance) |

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| Relevant PNECs of components |         |           |                 |                       |                           |                              |
|------------------------------|---------|-----------|-----------------|-----------------------|---------------------------|------------------------------|
| Name of substance            | CAS No  | End-point | Threshold level | Organism              | Environmental compartment | Exposure time                |
| Formic acid                  | 64-18-6 | PNEC      | 1.5 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.

##### Skin protection



##### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

##### • type of material

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).

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### 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  | faintly perceptible - like ether                 |
| Melting point/freezing point                             | -45.7 °C   |
| 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                          | 3 vol% (LEL) - 17 vol% (UEL)                     |
| Flash point  | 12.8 °C at 1,013 hPa (ECHA)                      |
| Auto-ignition temperature                                | 524 °C at 1,013 hPa (ECHA)                       |
| Decomposition temperature                                | not relevant                                     |
| pH (value)   | not determined                                   |
| Kinematic viscosity                                      | 0.443 mm <sup>2</sup> /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)

Vapour pressure 94.51 hPa at 20 °C

#### Density and/or relative density

Density 0.79 g/cm<sup>3</sup> at 20 °C (ECHA)

Relative vapour density Information on this property is not available.

Particle characteristics not relevant (liquid)

#### Other safety parameters

Oxidising properties none

### 9.2 Other information

Information with regard to physical hazard classes: There is no additional information.



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Other safety characteristics:

Miscibility completely miscible with water

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

It's a reactive substance. Risk of ignition. Vapours may form explosive mixtures with air.

##### If heated

Risk of ignition.

#### 10.2 Chemical stability

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

#### 10.3 Possibility of hazardous reactions

**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   |

| Acute toxicity of components |         |                    |          |              |         |
|------------------------------|---------|--------------------|----------|--------------|---------|
| Name of substance            | CAS No  | Exposure route     | Endpoint | Value        | Species |
| Formic acid                  | 64-18-6 | oral               | LD50     | 730 mg/kg    | rat     |
| Formic acid                  | 64-18-6 | inhalation: vapour | LC50     | 7.85 mg/l/4h | rat     |

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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### 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.

### 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

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

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

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| 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 (acute) of components |         |          |            |                       |               |
|--|---------|----------|------------|-----------------------|---------------|
| Name of substance                      | CAS No  | Endpoint | Value      | Species               | Exposure time |
| Formic acid                            | 64-18-6 | LC50     | 130 mg/l   | fish                  | 96 h          |
| Formic acid                            | 64-18-6 | EC50     | 365 mg/l   | aquatic invertebrates | 48 h          |
| Formic acid                            | 64-18-6 | ErC50    | 1,240 mg/l | algae                 | 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

Theoretical Oxygen Demand (without nitrification): 1.559 mg/mg

Theoretical Oxygen Demand (with nitrification): 3.118 mg/mg

Theoretical Carbon Dioxide: 2.144 mg/mg

#### Biodegradation

The substance is readily biodegradable.

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

| Degradability of components |         |                  |                  |      |        |        |
|-----------------------------|---------|------------------|------------------|------|--------|--------|
| Name of substance           | CAS No  | Process          | Degradation rate | Time | Method | Source |
| Formic acid                 | 64-18-6 | biotic/abiotic   | 98 %             | 14 d |        |        |
| Formic acid                 | 64-18-6 | oxygen depletion | 15 %             | 5 d  |        | ECHA   |
| Formic acid                 | 64-18-6 | DOC removal      | 4 %              | 6 d  |        | ECHA   |

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

|                           |                                    |
|---------------------------|------------------------------------|
| n-octanol/water (log KOW) | -0.34 (pH value: ~7, 25 °C) (ECHA) |
|---------------------------|------------------------------------|

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| Bioaccumulative potential of components |         |     |                           |          |
|---|---------|-----|---------------------------|----------|
| Name of substance                       | CAS No  | BCF | Log KOW                   | BOD5/COD |
| Formic acid                             | 64-18-6 |     | -2.1 (pH value: 7, 23 °C) |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

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

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



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

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### Relevant provisions relating to waste(Basel Convention)

##### Properties of waste which render it hazardous

H3 Flammable liquids

### 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

UN RTDG UN 1648

IMDG-Code UN 1648

ICAO-TI UN 1648

### 14.2 UN proper shipping name

UN RTDG ACETONITRILE



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|   |   |
|---|---|
| IMDG-Code   | ACETONITRILE  |
| ICAO-TI   | Acetonitrile  |
| <b>14.3 Transport hazard class(es)</b>  |   |
| <b>UN RTDG</b>  | 3   |
| IMDG-Code   | 3   |
| ICAO-TI   | 3   |
| <b>14.4 Packing group</b>   |   |
| <b>UN RTDG</b>  | II  |
| IMDG-Code   | II  |
| ICAO-TI   | II  |
| <b>14.5 Environmental hazards</b>   | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>  |   |
| There is no additional information.   |   |
| <b>14.7 Transport in bulk according to IMO instruments</b>                          |   |
| The cargo is not intended to be carried in bulk.                                    |   |
| <b>14.8 Information for each of the UN Model Regulations</b>                        |   |
| <b>Transport informationNational regulationsAdditional information(UN RTDG)</b>     |   |
| <b>UN number</b>  | 1648  |
| <b>Class</b>  | 3   |
| <b>Packing group</b>  | II  |
| <b>Danger label(s)</b>  | 3   |
|  |   |
| <b>Special provisions (SP)</b>  | -<br>UN RTDG  |
| <b>Excepted quantities (EQ)</b>   | E2<br>UN RTDG   |
| <b>Limited quantities (LQ)</b>  | 1 I<br>UN RTDG  |
| <b>Emergency Action Code</b>  | 2YE   |
| <b>International Maritime Dangerous Goods Code (IMDG) - Additional information</b>  |   |
| Proper shipping name  | ACETONITRILE  |
| Particulars in the shipper's declaration  | UN1648, ACETONITRILE, 3, II, 12.8°C c.c.                              |
| Marine pollutant  | -   |
| Danger label(s)   | 3   |
|  |   |

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|                          |          |
|--------------------------|----------|
| Excepted quantities (EQ) | E2       |
| Limited quantities (LQ)  | 1 L      |
| EmS                      | F-E, S-D |
| Stowage category         | B        |

### International Civil Aviation Organization (ICAO-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 |

## SECTION 15: Regulatory information

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

There is no additional information.

#### National regulations(Australia)

##### Australian Inventory of Chemical Substances(AICS)

Substance is 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          |
| TR      | CICR       | substance is listed          |
| TW      | TCSI       | substance is listed          |
| US      | TSCA       | substance is listed (ACTIVE) |

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| Country | Inventory | Status              |
|---------|-----------|---------------------|
| VN      | NCI       | substance is listed |

### Legend

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

### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value)  | Safety-relevant |
|---------|---------------------------|--|-----------------|
| 2.3     |                           | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes             |
| 14.8    |                           | Emergency Action Code:<br>2YE  | yes             |
| 15.1    |                           | National inventories:<br>change in the listing (table)   | yes             |

### Abbreviations and acronyms

| Abbr.     | Descriptions of used abbreviations   |
|-----------|--|
| BCF       | Bioconcentration factor  |
| BOD       | Biochemical Oxygen Demand  |
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |
| Ceiling-C | Ceiling value  |
| COD       | Chemical oxygen demand   |
| 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 |
| ED        | Endocrine disruptor  |
| EINECS    | European Inventory of Existing Commercial Chemical Substances  |
| ELINCS    | European List of Notified Chemical Substances  |
| EmS       | Emergency Schedule   |

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| Abbr.     | Descriptions of used abbreviations   |
|-----------|--|
| 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 Nations  |
| IATA      | International Air Transport Association  |
| IATA/DGR  | Dangerous Goods Regulations (DGR) for the air transport (IATA)   |
| ICAO      | International Civil Aviation Organization  |
| ICAO-TI   | Technical instructions for the safe transport of dangerous goods by air  |
| IMDG      | International Maritime Dangerous Goods Code  |
| IMDG-Code | International Maritime Dangerous Goods Code  |
| 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)  |
| log KOW   | n-Octanol/water  |
| NLP       | No-Longer Polymer  |
| PBT       | Persistent, Bioaccumulative and Toxic  |
| PNEC      | Predicted No-Effect Concentration  |
| ppm       | Parts per million  |
| STEL      | Short-term exposure limit  |
| TWA       | Time-weighted average  |
| UEL       | Upper explosion limit (UEL)  |
| UN RTDG   | UN Recommendations on the Transport of Dangerous Good  |
| vPvB      | Very Persistent and very Bioaccumulative   |
| WES       | Safe Work Australia: Workplace exposure standards for airborne contaminants  |

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. 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.                 |



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## **Disclaimer**

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