

# Solution of N-Methylimidazole and Pyridine in Acetonitrile

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 9/8/2017 Revision date: 12/5/2023 Supersedes version of: 7/25/2023 Version: 3.2

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

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: Solution of N-Methylimidazole and Pyridine in Acetonitrile
UFI	: FET2-E0E8-700Q-7XC2
Product code	: NC-0810
Type of product	: Synthesis Reagent
Product group	: End product

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

##### 1.2.1. Relevant identified uses

Main use category	: Laboratory chemical, Industrial use
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Laboratory chemicals Substance manufacture
Function or use category	: Laboratory chemicals

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

emp Biotech GmbH GmbH  
Robert-Rössle-Str. 10  
DE 13125 Berlin  
Deutschland  
T +49 (0)30 94 89 22 01 (Monday-Friday, 9:00 am-5:00 pm), F +49 (0)30 94 89 32 01  
[info@empbiotech.com](mailto:info@empbiotech.com), [www.empbiotech.com](http://www.empbiotech.com)

#### 1.4. Emergency telephone number

Emergency number	: Giftnotruf Berlin +49 30 30686700 (Beratung in Deutsch), 24 Stunden, 7 Tage/Woche; International: INFOTRAC +1-352-323-3500 (Phone) or in the US 800-535-5053 (toll-free), 24 hours/day, 7 days/week
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 3 (Dermal)	H311
Acute Tox. 4 (Inhalation)	H332
Skin Corr. 1B	H314
Eye Irrit. 2	H319

Full text of hazard classes, H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS05

GHS06

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.  
H302+H332 - Harmful if swallowed or if inhaled.  
H311 - Toxic in contact with skin.  
H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing mist, vapours, spray.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P311 - Call a POISON CENTER, doctor.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

Other hazards which do not result in classification : This substance / mixture does not contain any components of 0.1% or higher that are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetonitrile (Anhydrous)	CAS-No.: 75-05-8 EC-No.: 200-835-2 EC Index-No.: 608-001-00-3 REACH-no: 01-2119471307-38-XXXX	50 – 80	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Pyridine (anhydrous)	CAS-No.: 110-86-1 EC-No.: 203-809-9 EC Index-No.: 613-002-00-7 REACH-no: 01-2119493105-40-XXXX	10 – 30	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302
1-Methylimidazole	CAS-No.: 616-47-7 EC-No.: 210-484-7 EC Index-No.: 613-035-00-7	10 – 20	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314

Full text of H- and EUH-statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Consult a doctor. Show this safety data sheet to the doctor in attendance.
First-aid measures after inhalation	: Move person to fresh air and ensure comfortable breathing. Give oxygen or artificial respiration if necessary. Call a doctor.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Immediately call a POISON CENTER/doctor. Remove contact lenses, if possible. Continue rinsing.
First-aid measures after ingestion	: Drink water immediately (max. 2 cups). Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. No attempts at neutralization.

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

Symptoms/effects	: The most important known symptoms and effects are described on the label (see 2.2) and / or in section 11.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Carbon dioxide. Water spray. Alcohol-resistant foam.
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#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Combustible.
Hazardous decomposition products in case of fire	: Hazardous decomposition products formed under fire conditions. - Carbon oxides. Nitrous gases (NOx).

#### 5.3. Advice for firefighters

Firefighting instructions	: Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Protection during firefighting	: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Protective equipment	: For personal protection see section 8.
Emergency procedures	: Do not breathe vapours, mist, gas, spray. Avoid substance contact. Ensure adequate ventilation, observe emergency procedures, consult an expert. Keep away from heat and sources of ignition. . Evacuate area.

##### 6.1.2. For emergency responders

Protective equipment	: Wear recommended personal protective equipment.
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#### 6.2. Environmental precautions

Do not allow to enter drains or water courses. Be careful of explosion risk. Prevent further leakage or spillage if safe to do so.

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

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4. Reference to other sections

Information on exposure controls/personal protective equipment and on Instructions for disposal can be found in sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use under laboratory hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Apply preventive skin protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep container tightly closed in a dry, well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage temperature : 5 – 25 °C

Storage area : Storage class (TRGS 510): See section 15.1.2.

### 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Acetonitrile (Anhydrous) (75-05-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acetonitrile
IOEL TWA	70 mg/m <sup>3</sup>
	40 ppm Indicative: Indicates the possibility of significant absorption of the substance through the skin.
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Acetonitril
AGW (OEL TWA)	17 mg/m <sup>3</sup>
	10 ppm Remark: Skin resorptive: There is no reason to fear a risk of damage to the developing embryo or foetus when AGW and BGW are adhered to. Source: DFG, EU
1-Methylimidazole (616-47-7)	
Germany - Occupational Exposure Limits (Generic OEL data)	
	Contains no substances with occupational exposure limits

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Pyridine (anhydrous) (110-86-1)	
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Pyridin
AGW (OEL TWA)	15 mg/m <sup>3</sup>
	5 ppm - Remarks: Indicative Legal reference: Commission Directive 91/322/EEC on release of indicative limit values

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

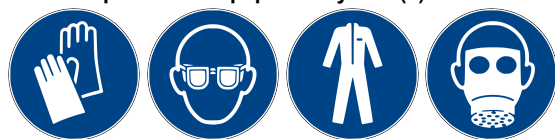
### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear eye protection. Wear closed safety glasses. EN 166. Use face shield for larger quantities.

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Flame retardant antistatic protective clothing

##### Hand protection:

Wear protective gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Splash contact

Material: butyl-rubber

Minimum layer thickness: 0,3 mm

Break through time: 219 min (Pyridine)

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear respiratory protection. Required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards:

DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type ABEK.

#### 8.2.2.4. Thermal hazards

No additional information available

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### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Do not let product enter drains. Risk of explosion.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Clear.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Completely miscible with water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Bases, Oxidizing agents, Alkali metals, Reducing agents, Acids.

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### 10.6. Hazardous decomposition products

In the event of fire: see section 5.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Toxic in contact with skin.  
Acute toxicity (inhalation) : Harmful if inhaled.

#### Acetonitrile (Anhydrous) (75-05-8)

LD50 oral rat	2460 mg/kg - Union Carbide Data Sheet. Vol. 3/18/1965.
LD50 dermal rabbit	> 2000 mg/kg - International Journal of Toxicology. Vol. 19, Pg. 363, 2000.

#### 1-Methylimidazole (616-47-7)

LD50 oral rat	1144 mg/kg male and female (OECD Test Guideline 401)
LD50 dermal rabbit	400 – 640 mg/kg male and female (OECD Test Guideline 402)

#### Pyridine (anhydrous) (110-86-1)

LD50 oral rat	891 mg/kg BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. Vol. 14-4/1970.
LD50 dermal rabbit	1120 mg/kg BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. Vol. 14-4/1970.

Skin corrosion/irritation : Causes severe skin burns.  
Additional information : 1-Methylimidazole:  
Skin - Rabbit  
Result: Corrosive  
Remarks: (OECD Test Guideline 404)

Pyridine:  
Skin - Rabbit  
Result: Mild skin irritation - 24 h  
(Draize Test)

#### 1-Methylimidazole (616-47-7)

pH	9.5 – 11.5 Concentration: 50 g/l at 20 °C
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#### Pyridine (anhydrous) (110-86-1)

pH	≈ 8.5 at 25 °C
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Serious eye damage/irritation : Causes serious eye irritation.  
Additional information : Acetonitrile: Eyes - Rabbit  
Result: Causes serious eye irritation.  
(OECD Test Guideline 405)  
Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)  
1-Methylimidazole:  
Eyes - Rabbit  
Result: Corrosive  
Remarks: (OECD Test Guideline 405)

Pyridine:  
Eyes - Rabbit  
Result: Irritating to eyes. - 24 h  
Remarks: (ECHA)

#### 1-Methylimidazole (616-47-7)

pH	9.5 – 11.5 Concentration: 50 g/l at 20 °C
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Pyridine (anhydrous) (110-86-1)	
pH	≈ 8.5 at 25 °C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Additional information	: Acetonitrile: Test system: Saccharomyces cerevisiae Result: positive Remarks: Cytogenetic analysis (ECHA)
Carcinogenicity	: Not classified
Solution of N-Methylimidazole and Pyridine in Acetonitrile	
IARC group	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
1-Methylimidazole (616-47-7)	
IARC group	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Pyridine (anhydrous) (110-86-1)	
IARC group	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
1-Methylimidazole (616-47-7)	
LOAEL (oral, rat, 90 days)	90 mg/kg bodyweight/day
Aspiration hazard	: Not classified
Acetonitrile (Anhydrous) (75-05-8)	
Viscosity, kinematic	0.405 mm <sup>2</sup> /s
1-Methylimidazole (616-47-7)	
Viscosity, kinematic	1.826 mm <sup>2</sup> /s
Pyridine (anhydrous) (110-86-1)	
Viscosity, kinematic	≈ 0.898 mm <sup>2</sup> /s
11.2. Information on other hazards	
<b>11.2.1. Endocrine disrupting properties</b>	
No additional information available	
<b>11.2.2. Other information</b>	
Potential adverse human health effects and symptoms	: Pyridine has the following acute effects: Irritations of the mucosae and the skin; impaired well-being, chiefly in the gastrointestinal tract; neurotoxic effects; Chronic effects: Likewise, additional disorders of the liver and the kidney functions are possible. ,Treat Acetonitrile as cyanide poisoning. Always have on hand a cyanide first-aid kit, together with proper instructions. The onset of symptoms is generally delayed pending conversion to cyanide. Nausea, Vomiting, Diarrhoea, Headache, Dizziness, Rash, Cyanosis, Excitement, Depression, Drowsiness, Impaired judgment, Lack of coordination, Stupor, Death. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.
Other information	: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



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### SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### Acetonitrile (Anhydrous) (75-05-8)

LC50 - Fish [1]	1640 mg/l - Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows ( <i>Pimephales promelas</i> ), Vol. 1. Center for Lake Superior Environmental Stud., Univ. of Wisconsin-Superior, Superior, WI :414
EC50 - Crustacea [1]	3600 mg/l - Tong, Z., Z. Huailan, and J. Hongjun 1996. Chronic Toxicity of Acrylonitrile and Acetonitrile to <i>Daphnia magna</i> in 14-d and 21-d Toxicity Tests. <i>Bull. Environ. Contam. Toxicol.</i> 57(4):655-659

#### 1-Methylimidazole (616-47-7)

LC50 - Fish [1]	100 – 215 mg/l static test LC50 - <i>Leuciscus idus</i> (Golden orfe) - 96 h
EC50 - Crustacea [1]	267.94 mg/l EC50 - <i>Daphnia magna</i> (Water flea) - 48 h
EC50 72h - Algae [1]	180.7 mg/l static test EC50 - <i>Desmodesmus subspicatus</i> (green algae) - 72 h (OECD Test Guideline 201)

#### Pyridine (anhydrous) (110-86-1)

LC50 - Fish [1]	6.3 (1.1 – 106) mg/l Reference for median: Wan, M.T., D.J. Moul, and R.G. Watts 1987. Acute Toxicity to Juvenile Pacific Salmonids of Garlon 3A, Garlon 4, Triclopyr, Triclopyr Ester, and Their Transformation Products: 3,5,6-Trichloro-2 Pyridinol and 2-Methoxy-3,5,6-Trichloropyridine. <i>Bull. Environ. Contam. Toxicol.</i> 39(4):721-728 (OECDG Data File)
EC50 - Crustacea [1]	1130 (182 – 2550) mg/l Reference for median: Canton, J.H., and D.M.M. Adema 1978. Reproducibility of Short-Term and Reproduction Toxicity Experiments with <i>Daphnia magna</i> and Comparison of the Sensitivity of <i>Daphnia magna</i> with <i>Daphnia pulex</i> and <i>Daphnia cucullata</i> in Short-Term Experiments. <i>Hydrobiologia</i> 59(2):135-140 (Used Reference 2018)
EC50 96h - Algae [1]	110 mg/l Reference for median: Slooff, W. 1982. A Comparative Study on the Short-Term Effects of 15 Chemicals on Fresh Water Organisms of Different Tropic Levels. <i>Natl. Tech. Inf. Serv.</i> , Springfield, VA :25 p. (DUT) (ENG ABS) (NTIS/PB83-200386)

#### 12.2. Persistence and degradability

##### Solution of N-Methylimidazole and Pyridine in Acetonitrile

Persistence and degradability Rapidly degradable

##### Acetonitrile (Anhydrous) (75-05-8)

Persistence and degradability Rapidly degradable

Biodegradation 70 % - Result: Readily biodegradable. (OECD Test Guideline 310)

##### 1-Methylimidazole (616-47-7)

Persistence and degradability Rapidly degradable

Biodegradation 0 – 10 % Aerobic - Exposure time 28 d  
Result: Not readily biodegradable. (OECD Test Guideline 301F)

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Pyridine (anhydrous) (110-86-1)	
Persistence and degradability	Rapidly degradable
Biodegradation	97 % Aerobic - Exposure time 28 d Result: Readily biodegradable. (OECD Test Guideline 301B)

### 12.3. Bioaccumulative potential

Acetonitrile (Anhydrous) (75-05-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.34
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).

1-Methylimidazole (616-47-7)	
Partition coefficient n-octanol/water (Log Kow)	-0.06

Pyridine (anhydrous) (110-86-1)	
Partition coefficient n-octanol/water (Log Kow)	0.65

### 12.4. Mobility in soil

Acetonitrile (Anhydrous) (75-05-8)	
Mobility in soil	Not expected to adsorb on soil.

### 12.5. Results of PBT and vPvB assessment

Solution of N-Methylimidazole and Pyridine in Acetonitrile	
Results of PBT assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Other adverse effects	: Discharge into the environment must be avoided.
Acetonitrile	: Toxicity to fish: Flow-through test LC50 - Pimephales promelas (fathead minnow): 1.640 mg/l - 96 h Remarks: (ECHA) Toxicity to algae: Static test NOEC - Phaeodactylum tricornutum: 400 mg/l - 72 h Remarks: (ISO 10253) Static test ErC50 - Phaeodactylum tricornutum: 9.696 mg/l - 72 h Remarks: (ISO 10253)
1-Methylimidazole	: Toxicity to fish: Static test LC50 - Leuciscus idus (Golden orfe): > 100 - 215 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea): 267,94 mg/l - 48 h Toxicity to algae: Static test EC50 - Desmodesmus subspicatus (green algae): 180,7 mg/l - 72 h Remarks: (OECD Test Guideline 201)

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Pyridine	: Toxicity to fish: Semi-static test: EC50: Danio rerio (zebra fish): 560 - 1.000 mg/l - 96 h Remarks: (OECD Test Guideline 203) (in analogy to similar products) Toxicity to daphnia and other aquatic invertebrates: EC50: Daphnia magna (Water flea): 320 mg/l - 48 h Remarks: (OECD Test Guideline 202) (in analogy to similar products) Toxicity to algae: Static test: EC50: Pseudokirchneriella subcapitata: 320 mg/l - 72 h Remarks: (OECD Test Guideline 201) (in analogy to similar products) IC5: Scenedesmus quadricauda (Green algae): 120 mg/l - 7 d Remarks: (maximum permissible toxic concentration) EC50: SELENASTRUM: 100,00 - 180,00 mg/l - 72 h
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Product residues are to be disposed of in compliance with national and regional regulations dispose. Keep chemicals in original containers. Not with other waste mix. Uncleaned containers are to be treated according to the product. Pay attention to the waste policy 2008/98/EG.
Product/Packaging disposal recommendations	: Contaminated packaging to be disposed as unused product.
Ecological information	: Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
<b>14.1. UN number or ID number</b>		
UN 2924	UN 2924	UN 2924
<b>14.2. UN proper shipping name</b>		
FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Solution of N-Methylimidazole and Pyridine in Acetonitrile)	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Solution of N-Methylimidazole and Pyridine in Acetonitrile)	Flammable liquid, corrosive, n.o.s. (Solution of N-Methylimidazole and Pyridine in Acetonitrile)
<b>14.3. Transport hazard class(es)</b>		
3 (8)	3 (8)	3 (8)
<b>14.4. Packing group</b>		
II	II	II
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

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### 14.6. Special precautions for user

#### Overland transport

Orange plates

:



#### Transport by sea

Properties and observations (IMDG)

:

Causes burns to skin, eyes and mucous membranes.

#### Air transport

No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Seveso Directive (Disaster Risk Reduction)

Seveso Additional information

:

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : FLAMMABLE LIQUIDS

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

##### Germany

Employment restrictions

:

Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

# Solution of N-Methylimidazole and Pyridine in Acetonitrile

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Water hazard class (WGK)	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
Storage class (LGK, TRGS 510)	: LGK 3 - Flammable liquids.
Chemicals Prohibition Ordinance (ChemVerbotsV)	: This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### 15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16: Other information

Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

### Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.