

**Acetic acid 99%**

Revision: 25.06.2024

Product code: AC12.00653

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Acetic acid 99%

REACH Registration Number: 01-2119475328-30-XXXX  
CAS No: 64-19-7  
Index No: 607-002-00-6  
EC No: 200-580-7  
UFI: EJK0-J3M8-M003-GCAK

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Reagents and laboratory chemicals  
Only for laboratory and analysis purposes.

**Uses advised against**

Do not use for private purposes (household).

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

Company name: AnalytiChem Services, Unipessoal, Lda  
Street: Rua de Júlio Dinis 676 7º  
Place: N-4050-320 Porto  
Telephone: +351 226002917  
E-mail: info@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Internet: www.analytichem.com  
Responsible Department: SDS service department

**Supplier or manufacturer details**

Company name: AnalytiChem Belgium NV  
Street: Industriezone "De Arend" 2  
Place: B-8210 Zedelgem  
Telephone: +32 50 28 83 20  
E-mail: info.be@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Responsible Department: AnalytiChem:  
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20  
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200  
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848  
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500  
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378  
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701  
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333

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**1.4. Emergency telephone number:** +44 20 3807 3798 (CHEMTREC)

**Further Information**

No data available

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 3; H226

Skin Corr. 1A; H314

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H226

Flammable liquid and vapour.

H314

Causes severe skin burns and eye damage.

**Precautionary statements**

P210

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

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing and eye protection/face protection.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+P351+P338

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

P310

Immediately call a POISON CENTER/doctor.

**2.3. Other hazards**

No data available

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Sum formula:

CH<sub>3</sub>COOH

Molecular weight:

60,05 g/mol

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**Relevant ingredients**

| CAS No  | Chemical name   |              |                       | Quantity |
|---------|---|--------------|-----------------------|----------|
|         | EC No   | Index No     | REACH No              |          |
|         | Classification (Regulation (EC) No 1272/2008)           |              |                       |          |
| 64-19-7 | acetic acid   |              |                       | 100 %    |
|         | 200-580-7   | 607-002-00-6 | 01-2119475328-30-XXXX |          |
|         | Flam. Liq. 3, Skin Corr. 1A, Eye Dam. 1; H226 H314 H318 |              |                       |          |

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

**Specific Conc. Limits, M-factors and ATE**

| CAS No  | EC No  | Chemical name                            | Quantity |
|---------|--|--|----------|
|         |  | Specific Conc. Limits, M-factors and ATE |          |
| 64-19-7 | 200-580-7  | acetic acid                              | 100 %    |
|         | oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90<br>Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 |  |          |

**Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Self-protection of the first aider

**After inhalation**

Provide fresh air.

Call a physician immediately.

**After contact with skin**

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

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

Irritant

corrosive

Dyspnoea

Gastrointestinal complaints

Vomiting

Circulatory collapse

Corneal opacity.

Risk of serious damage to eyes.

**4.3. Indication of any immediate medical attention and special treatment needed**

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No data available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

no restriction

**5.2. Special hazards arising from the substance or mixture**

Combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

Acetic acid vapour

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

Heating causes rise in pressure with risk of bursting.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

**For non-emergency personnel**

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

**For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

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

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**For containment**

- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Collect in closed and suitable containers for disposal.
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up**

- Clean contaminated articles and floor according to the environmental legislation.

**Other information**

- Provide adequate ventilation.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.4. Reference to other sections**

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

- Read label before use. Handle and open container with care.
- When using do not eat, drink, smoke, sniff. Keep container tightly closed.
- Use personal protection equipment. Use extractor hood (laboratory).
- Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

**Advice on protection against fire and explosion**

- Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Advice on general occupational hygiene**

- Keep away from food, drink and animal feedingstuffs.
- The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

**Further information on handling**

- Take off immediately all contaminated clothing and wash it before reuse.
- Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

- Store in a well-ventilated place. Keep container tightly closed.
- Store in a dry place.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hints on joint storage**

- Take national regulations into account.

**Further information on storage conditions**

- storage temperature +15°C - +25°C

**7.3. Specific end use(s)**

- Laboratory chemicals

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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## Exposure limits (EH40)

| CAS No  | Substance   | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|-------------|-----|-------------------|-----------|---------------|--------|
| 64-19-7 | Acetic acid | 10  | 25                |           | TWA (8 h)     | WEL    |
|         |             | 20  | 50                |           | STEL (15 min) | WEL    |

## DNEL/DMEL values

| CAS No                   | Substance   |                |        |          |
|--------------------------|-------------|----------------|--------|----------|
| DNEL type                |             | Exposure route | Effect | Value    |
| 64-19-7                  | acetic acid |                |        |          |
| Worker DNEL, long-term   |             | inhalation     | local  | 25 mg/m³ |
| Worker DNEL, acute       |             | inhalation     | local  | 25 mg/m³ |
| Consumer DNEL, long-term |             | inhalation     | local  | 25 mg/m³ |
| Consumer DNEL, acute     |             | inhalation     | local  | 25 mg/m³ |

## PNEC values

| CAS No   | Substance   |
|--|-------------|
| Environmental compartment                        | Value       |
| 64-19-7  | acetic acid |
| Freshwater                                       | 3,058 mg/l  |
| Freshwater (intermittent releases)               | 30,58 mg/l  |
| Marine water                                     | 0,306 mg/l  |
| Freshwater sediment                              | 11,36 mg/kg |
| Marine sediment                                  | 1,136 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | 85 mg/l     |
| Soil   | 0,47 mg/kg  |

## 8.2. Exposure controls

## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

## Individual protection measures, such as personal protective equipment

## Eye/face protection

goggles

Face protection umbrella

## Hand protection

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) with the following specification (test according to EN 374):

By long-term hand contact

Trade name/designation KCL 897 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation KCL 890 Vitoject®

Suitable material: FKM (fluoro rubber) 0,7 mm

Wearing time with occasional contact (splashes): > 119 min

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The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Skin protection**

Take off immediately all contaminated clothing and wash it before reuse.  
Wear fire resistant or flame retardant clothing.  
Wash hands and face before breaks and after work and take a shower if necessary.  
Draw up and observe skin protection programme.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Filtering device (full mask or mouthpiece) with filter: E-(P2)  
The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.  
Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.  
Danger of explosion

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|   |                         |
|---|-------------------------|
| Physical state:   | Liquid                  |
| Colour:   | colourless              |
| Odour:  | stinging                |
| Melting point/freezing point:                             | 17 °C                   |
| Boiling point or initial boiling point and boiling range: | 116-118 °C              |
| Flammability:   | No data available       |
| Lower explosion limits:                                   | 4 vol. %                |
| Upper explosion limits:                                   | 19,9 vol. %             |
| Flash point:  | 39 °C                   |
| Auto-ignition temperature:                                | 463 °C                  |
| Decomposition temperature:                                | No data available       |
| pH-Value:   | 1,7                     |
| Viscosity / kinematic:<br>(at 20 °C)                      | 1,17 mm <sup>2</sup> /s |
| Water solubility:<br>(at 25 °C)                           | 602,9 g/l               |
| Solubility in other solvents                              | No data available       |
| Partition coefficient n-octanol/water:                    | No data available       |
| Vapour pressure:<br>(at 20 °C)                            | 16 hPa hPa              |
| Vapour pressure:  | No data available       |
| Density:  | 1,05 g/cm <sup>3</sup>  |
| Bulk density:   | No data available       |
| Relative vapour density:                                  | No data available       |

**9.2. Other information**

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**Information with regard to physical hazard classes**

## Explosive properties

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

## Sustained combustibility:

Sustained combustibility

## Self-ignition temperature

Solid:

No data available

Gas:

No data available

## Oxidizing properties

No data available

**Other safety characteristics**

Evaporation rate:

No data available

Solvent separation test:

No data available

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

Viscosity / dynamic:

1,22 mPa·s

(at 20 °C)

Flow time:

No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

In case of warming: Vapours may form explosive mixtures with air.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Oxidising agent

peroxides, for example hydrogen peroxide

permanganates, e.g. potassium permanganate

Oxidising agent, strong

Metal

iron and steel

Zinc

Alkali (lye)

aldehydes

Alcohols

Nitric acid

**10.4. Conditions to avoid**

storage temperature &lt; 17 °C

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

**10.5. Incompatible materials**

Metal

**10.6. Hazardous decomposition products**

SECTION 5: Firefighting measures

**Further information**

No data available

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**SECTION 11: Toxicological information****11.1. Information on hazard classes****Acute toxicity**

Based on available data, the classification criteria are not met.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Symptoms may be delayed.

| CAS No  | Chemical name  |                 |         |  |  |
|---------|----------------|-----------------|---------|--|--|
|         | Exposure route | Dose            | Species | Source                                   | Method                                   |
| 64-19-7 | acetic acid    |                 |         |  |  |
|         | oral           | LD50 3310 mg/kg | Rat     | J Ind Hyg Toxicol, Vol 23, PP 78-82 (194 | The sodium salt of acetic acid was admin |

**Irritation and corrosivity**

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

Observe risk of aspiration if vomiting occurs.

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**

No data available

**11.2. Information on other hazards****Other information**

Irritant

corrosive

Dyspnoea

Gastrointestinal complaints

Vomiting

Circulatory collapse

Corneal opacity.

Risk of serious damage to eyes.

**Further information**

Damage to: kidneys

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**SECTION 12: Ecological information****12.1. Toxicity**

Based on available data, the classification criteria are not met.

| CAS No  | Chemical name            |                   |           |                      |                     |                    |
|---------|--------------------------|-------------------|-----------|----------------------|---------------------|--------------------|
|         | Aquatic toxicity         | Dose              | [h]   [d] | Species              | Source              | Method             |
| 64-19-7 | acetic acid              |                   |           |                      |                     |                    |
|         | Acute fish toxicity      | LC50 > 1000 mg/l  | 96 h      | Oncorhynchus mykiss  | Study report (2005) | other: SOP E257    |
|         | Acute algae toxicity     | ErC50 > 1000 mg/l | 72 h      | Skeletonema costatum | Study report (2005) | ISO 10253          |
|         | Acute crustacea toxicity | EC50 > 1000 mg/l  | 48 h      | Daphnia magna        | Study report (1990) | OECD Guideline 202 |

**12.2. Persistence and degradability**

99 %; 30 d

Readily biodegradable (according to OECD criteria).

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

| CAS No  | Chemical name | Log Pow |
|---------|---------------|---------|
| 64-19-7 | acetic acid   | -0,17   |

**BCF**

| CAS No  | Chemical name | BCF  | Species | Source               |
|---------|---------------|------|---------|----------------------|
| 64-19-7 | acetic acid   | 3,16 | fish    | Environ. Toxicol. Ch |

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

Do not allow to enter into surface water or drains.

Avoid release to the environment.

Harmful effect due to pH shift.

**Further information**

No data available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

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

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**SECTION 14: Transport information****Land transport (ADR/RID)**

|  |                      |
|--|----------------------|
| <b>14.1. UN number or ID number:</b>     | UN 2789              |
| <b>14.2. UN proper shipping name:</b>    | Acetic acid, glacial |
| <b>14.3. Transport hazard class(es):</b> | 8                    |
| <b>14.4. Packing group:</b>              | II                   |
| Hazard label:                            | 8+3                  |
| Classification code:                     | CF1                  |
| Limited quantity:                        | 1 L                  |
| Excepted quantity:                       | E2                   |
| Transport category:                      | 2                    |
| Hazard No:                               | 83                   |
| Tunnel restriction code:                 | D/E                  |

**Inland waterways transport (ADN)**

|  |                      |
|--|----------------------|
| <b>14.1. UN number or ID number:</b>     | UN 2789              |
| <b>14.2. UN proper shipping name:</b>    | Acetic acid, glacial |
| <b>14.3. Transport hazard class(es):</b> | 8                    |
| <b>14.4. Packing group:</b>              | II                   |
| Hazard label:                            | 8+3                  |
| Classification code:                     | CF1                  |
| Limited quantity:                        | 1 L                  |
| Excepted quantity:                       | E2                   |

**Marine transport (IMDG)**

|  |                      |
|--|----------------------|
| <b>14.1. UN number or ID number:</b>     | UN 2789              |
| <b>14.2. UN proper shipping name:</b>    | Acetic acid, glacial |
| <b>14.3. Transport hazard class(es):</b> | 8                    |
| <b>14.4. Packing group:</b>              | II                   |
| Hazard label:                            | 8+3                  |
| Special Provisions:                      | -                    |
| Limited quantity:                        | 1 L                  |
| Excepted quantity:                       | E2                   |
| EmS:                                     | F-E, S-C             |

**Air transport (ICAO-TI/IATA-DGR)**

|  |                      |
|--|----------------------|
| <b>14.1. UN number or ID number:</b>     | UN 2789              |
| <b>14.2. UN proper shipping name:</b>    | Acetic acid, glacial |
| <b>14.3. Transport hazard class(es):</b> | 8                    |
| <b>14.4. Packing group:</b>              | II                   |
| Hazard label:                            | 8+3                  |
| Limited quantity Passenger:              | 0.5 L                |
| Passenger LQ:                            | Y840                 |
| Excepted quantity:                       | E2                   |
| IATA-packing instructions - Passenger:   | 851                  |
| IATA-max. quantity - Passenger:          | 1 L                  |
| IATA-packing instructions - Cargo:       | 855                  |
| IATA-max. quantity - Cargo:              | 30 L                 |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

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Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to Directive  
2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,8,9,12.

**Abbreviations and acronyms**

Flam. Liq. 3: Flammable liquids, hazard category 3

Skin Corr. 1A: Skin corrosion, sub-category 1A

Eye Dam. 1: Serious eye damage, hazard category 1

**Relevant H and EUH statements (number and full text)**

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

**Further Information**

Provide appropriate information, instructions and training to users

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.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.