

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Acetic acid 99 % R / trimethylpentane R - mixture mixed 3 : 2 volumetrically for determination of th

Revision date: 22.12.2023

Product code: 27777

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

##### 1.1. Product identifier

Acetic acid 99 % R / trimethylpentane R - mixture mixed 3 : 2 volumetrically for determination of th

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

###### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

###### Uses advised against

Do not use for private purposes (household).

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

|                         |                                  |                              |
|-------------------------|----------------------------------|------------------------------|
| Company name:           | AnalytiChem GmbH                 |                              |
| Street:                 | Stempelstraße 6                  |                              |
| Place:                  | D-47167 Duisburg                 |                              |
| Telephone:              | 0203/5194-0                      | Telefax: 0203/5194-290       |
| E-mail:                 | info@analytichem.de              |                              |
| Contact person:         | Abteilung Produktsicherheit      | Telephone: 0203/5194-107/117 |
| E-mail:                 | produktsicherheit@analytichem.de |                              |
| Internet:               | www.analytichem.de               |                              |
| Responsible Department: | Abteilung Produktsicherheit      |                              |

##### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

##### Further Information

This product is a mixture. REACH Registration Number see section 3.

#### SECTION 2: Hazards identification

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

###### Regulation (EC) No 1272/2008

Flam. Liq. 2; H225  
Asp. Tox. 1; H304  
Skin Corr. 1B; H314  
Eye Dam. 1; H318  
STOT SE 3; H336  
Aquatic Acute 1; H400  
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

###### Regulation (EC) No 1272/2008

###### Hazard components for labelling

acetic acid

2,2,4-trimethylpentane

Signal word: Danger

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**Pictograms:**



**Hazard statements**

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H336 May cause drowsiness or dizziness.
- H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.
- P308+P311 IF exposed or concerned: Call a POISON CENTER.

**2.3. Other hazards**

No data available

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Relevant ingredients**

| CAS No   | Chemical name  |              |                  | Quantity    |
|----------|--|--------------|------------------|-------------|
|          | EC No  | Index No     | REACH No         |             |
|          | Classification (Regulation (EC) No 1272/2008)  |              |                  |             |
| 64-19-7  | acetic acid  |              |                  | 65 - < 70 % |
|          | 200-580-7  | 607-002-00-6 | 01-2119475328-30 |             |
|          | Flam. Liq. 3, Skin Corr. 1A; H226 H314   |              |                  |             |
| 540-84-1 | 2,2,4-trimethylpentane   |              |                  | 30 - < 35 % |
|          | 208-759-1  | 601-009-00-8 | 01-2119457965-22 |             |
|          | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410 |              |                  |             |

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   | 65 - < 70 % |
|          |           | inhalation: LC50 = 11,4 mg/l (vapours); oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 |             |
| 540-84-1 | 208-759-1 | 2,2,4-trimethylpentane  | 30 - < 35 % |
|          |           | inhalation: LC50 = > 33,52 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg   |             |

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#### 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

No data available

#### 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

Rinse immediately carefully and thoroughly with eye-bath or water.

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

Consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

corrosive

Irritant

Vapours may cause drowsiness and dizziness.

Narcotic effects

Pulmonary oedema

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

No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

Foam

Extinguishing powder

#### 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

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

Heating causes rise in pressure with risk of bursting.

Beware of reignition.

### 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.

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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

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

##### 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.

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Use personal protection equipment. Use extractor hood (laboratory).  
Provide adequate ventilation. Do not breathe vapour.

**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.

**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**

Keep in a cool, well-ventilated place.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Further information on storage conditions**

Keep container tightly closed and dry.  
Keep cool. Protect from sunlight.

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

Laboratory chemicals

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

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

**DNEL/DMEL values**

| CAS No   | Substance                | Exposure route | Effect   | Value                  |
|----------|--------------------------|----------------|----------|------------------------|
| 64-19-7  | acetic acid              |                |          |                        |
|          | Worker DNEL, long-term   | inhalation     | local    | 25 mg/m <sup>3</sup>   |
|          | Worker DNEL, acute       | inhalation     | local    | 25 mg/m <sup>3</sup>   |
|          | Consumer DNEL, long-term | inhalation     | local    | 25 mg/m <sup>3</sup>   |
|          | Consumer DNEL, acute     | inhalation     | local    | 25 mg/m <sup>3</sup>   |
| 540-84-1 | 2,2,4-trimethylpentane   |                |          |                        |
|          | Worker DNEL, long-term   | inhalation     | systemic | 2035 mg/m <sup>3</sup> |
|          | Worker DNEL, long-term   | dermal         | systemic | 773 mg/kg bw/day       |
|          | Consumer DNEL, long-term | inhalation     | systemic | 608 mg/m <sup>3</sup>  |
|          | Consumer DNEL, long-term | dermal         | systemic | 699 mg/kg bw/day       |
|          | Consumer DNEL, long-term | oral           | systemic | 699 mg/kg bw/day       |

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**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**

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact: No data available

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

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**

Respiratory protection necessary at: aerosol or mist formation

**Thermal hazards**

No data available

**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.

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Danger of explosion

**SECTION 9: Physical and chemical properties**

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

|   |                   |                         |
|---|-------------------|-------------------------|
| Physical state:   | Liquid            |                         |
| Colour:   | colourless        |                         |
| Odour:  | characteristic    |                         |
| Odour threshold:  | No data available |                         |
| Melting point/freezing point:                             |                   | No data available       |
| Boiling point or initial boiling point and boiling range: |                   | >35 °C                  |
| Flammability:   |                   | No data available       |
| Lower explosion limits:                                   |                   | No data available       |
| Upper explosion limits:                                   |                   | No data available       |
| Flash point:  |                   | <21 °C                  |
| Auto-ignition temperature:                                |                   | No data available       |
| Decomposition temperature:                                |                   | No data available       |
| pH-Value:   |                   | No data available       |
| Viscosity / kinematic:                                    |                   | No data available       |
| Water solubility:   |                   | No data available       |
| Solubility in other solvents                              |                   | No data available       |
| Dissolution rate:   |                   | No data available       |
| Partition coefficient n-octanol/water:                    |                   | No data available       |
| Dispersion stability:                                     |                   | No data available       |
| Vapour pressure:  |                   | No data available       |
| Density:  |                   | 0,897 g/cm <sup>3</sup> |
| Relative density:   |                   | No data available       |
| Bulk density:   |                   | No data available       |
| Relative vapour density:                                  |                   | No data available       |
| Particle characteristics:                                 |                   | No data available       |

**9.2. Other information**

**Information with regard to physical hazard classes**

Explosive properties

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

Sustaining combustion: Sustaining combustion

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

Solvent content: No data available

Solid content: No data available

Sublimation point: No data available

Softening point: No data available

Pour point: No data available

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Viscosity / dynamic:

No data available

Flow time:

No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

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

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

Plastic articles

**10.6. Hazardous decomposition products**

SECTION 5: Firefighting measures

**Further information**

No data available

**SECTION 11: Toxicological information**

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

**Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No   | Chemical name           |                      |         |   |  |
|----------|-------------------------|----------------------|---------|---|--|
|          | Exposure route          | Dose                 | Species | Source                                    | Method                                   |
| 64-19-7  | acetic acid             |                      |         |   |  |
|          | oral                    | LD50<br>mg/kg 3310   | Rat     | J Ind Hyg Toxicol, Vol 23, PP 78-82 (194) | The sodium salt of acetic acid was admin |
|          | inhalation (4 h) vapour | LC50 11,4 mg/l       | Rat     | Study report (1980)                       | OECD Guideline 403                       |
| 540-84-1 | 2,2,4-trimethylpentane  |                      |         |   |  |
|          | oral                    | LD50<br>mg/kg > 5000 | Rat     | Study report (1982)                       | OECD Guideline 401                       |
|          | dermal                  | LD50<br>mg/kg > 2000 | Rabbit  | Study report (1982)                       | OECD Guideline 402                       |
|          | inhalation (4 h) vapour | LC50<br>mg/l > 33,52 | Rat     | Study report (1982)                       | OECD Guideline 403                       |

**Irritation and corrosivity**



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Causes severe skin burns and eye damage.

Causes serious eye damage.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

May cause drowsiness or dizziness. (2,2,4-trimethylpentane)

Organs affected: central nervous system

#### STOT-repeated exposure

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

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Information on likely routes of exposure

There are no data available on the mixture itself.

#### 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

#### Endocrine disrupting properties

There are no data available on the mixture itself.

#### Other information

No data available

#### Further information

corrosive

Irritant

Vapours may cause drowsiness and dizziness.

Narcotic effects

Pulmonary oedema

## SECTION 12: Ecological information

### 12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

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| CAS No   | Chemical name            |               |           |         |                                 |  |
|----------|--------------------------|---------------|-----------|---------|---------------------------------|--|
|          | Aquatic toxicity         | Dose          | [h]   [d] | Species | Source                          | Method   |
| 64-19-7  | acetic acid              |               |           |         |                                 |  |
|          | Acute fish toxicity      | LC50<br>mg/l  | > 1000    | 96 h    | Oncorhynchus mykiss             | Study report (2005)<br>other: SOP E257                                       |
|          | Acute algae toxicity     | ErC50<br>mg/l | > 1000    | 72 h    | Skeletonema costatum            | Study report (2005)<br>ISO 10253   |
|          | Acute crustacea toxicity | EC50<br>mg/l  | > 1000    | 48 h    | Daphnia magna                   | Study report (1990)<br>OECD Guideline 202                                    |
| 540-84-1 | 2,2,4-trimethylpentane   |               |           |         |                                 |  |
|          | Acute fish toxicity      | LC50<br>mg/l  | 0,11      | 96 h    | Oncorhynchus mykiss             | SIDS Initial Assessment Report For SIAM<br>OECD Guideline 203                |
|          | Acute algae toxicity     | ErC50<br>mg/l | 2,943     | 72 h    | Pseudokirchneriella subcapitata | CONCAWE, Brussels, Belgium (2010)<br>The aquatic toxicity was estimated by a |
|          | Acute crustacea toxicity | EC50          | 0,4 mg/l  | 48 h    | Daphnia magna                   | Publication (1986)<br>other: As described in: The evaluation o               |
|          | Fish toxicity            | NOEC<br>mg/l  | 0,82      | 28 d    | Oncorhynchus mykiss             | CONCAWE, Brussels, Belgium (2010)<br>The aquatic toxicity was estimated by a |
|          | Crustacea toxicity       | NOEC          | 1 mg/l    | 21 d    | Daphnia magna                   | SIDS Initial Assessment Report For SIAM<br>OECD Guideline 211                |

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**Partition coefficient n-octanol/water**

| CAS No   | Chemical name          | Log Pow |
|----------|------------------------|---------|
| 64-19-7  | acetic acid            | -0,17   |
| 540-84-1 | 2,2,4-trimethylpentane | 4,08    |

**BCF**

| CAS No   | Chemical name          | BCF  | Species    | Source               |
|----------|------------------------|------|------------|----------------------|
| 64-19-7  | acetic acid            | 3,16 | fish       | Environ. Toxicol. Ch |
| 540-84-1 | 2,2,4-trimethylpentane | 231  | calculated | Other company data ( |

**12.4. Mobility in soil**

There are no data available on the mixture itself.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Do not allow to enter into surface water or drains.

**Further information**

Avoid release to the environment.

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## 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.  
Do not empty into drains.

#### 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.

## SECTION 14: Transport information

### Land transport (ADR/RID)

|  |   |
|--|---|
| <b>14.1. UN number or ID number:</b>     | UN 2924   |
| <b>14.2. UN proper shipping name:</b>    | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (2,2,4-trimethylpentane, acetic acid) |
| <b>14.3. Transport hazard class(es):</b> | 3   |
| <b>14.4. Packing group:</b>              | II  |
| Hazard label:                            | 3+8   |
| Classification code:                     | FC  |
| Special Provisions:                      | 274   |
| Limited quantity:                        | 1 L   |
| Excepted quantity:                       | E2  |
| Transport category:                      | 2   |
| Hazard No:                               | 338   |
| Tunnel restriction code:                 | D/E   |

### Inland waterways transport (ADN)

|  |   |
|--|---|
| <b>14.1. UN number or ID number:</b>     | UN 2924   |
| <b>14.2. UN proper shipping name:</b>    | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (2,2,4-trimethylpentane, acetic acid) |
| <b>14.3. Transport hazard class(es):</b> | 3   |
| <b>14.4. Packing group:</b>              | II  |
| Hazard label:                            | 3+8   |
| Classification code:                     | FC  |
| Special Provisions:                      | 274   |
| Limited quantity:                        | 1 L   |
| Excepted quantity:                       | E2  |

### Marine transport (IMDG)

|  |   |
|--|---|
| <b>14.1. UN number or ID number:</b>     | UN 2924   |
| <b>14.2. UN proper shipping name:</b>    | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (2,2,4-trimethylpentane, acetic acid) |
| <b>14.3. Transport hazard class(es):</b> | 3   |
| <b>14.4. Packing group:</b>              | II  |
| Hazard label:                            | 3+8   |
| Special Provisions:                      | 274   |
| Limited quantity:                        | 1 L   |
| Excepted quantity:                       | E2  |
| EmS:                                     | F-E, S-C  |

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Acetic acid 99 % R / trimethylpentane R - mixture mixed 3 : 2 volumetrically for determination of th**

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|  |   |
|--|---|
| <b>14.1. UN number or ID number:</b>     | UN 2924   |
| <b>14.2. UN proper shipping name:</b>    | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (2,2,4-trimethylpentane, acetic acid) |
| <b>14.3. Transport hazard class(es):</b> | 3   |
| <b>14.4. Packing group:</b>              | II  |
| Hazard label:                            | 3+8   |
| Special Provisions:                      | A3  |
| Limited quantity Passenger:              | 0.5 L   |
| Passenger LQ:                            | Y340  |
| Excepted quantity:                       | E2  |
| IATA-packing instructions - Passenger:   | 352   |
| IATA-max. quantity - Passenger:          | 1 L   |
| IATA-packing instructions - Cargo:       | 363   |
| IATA-max. quantity - Cargo:              | 5 L   |

**14.5. Environmental hazards**

|                             |                        |
|-----------------------------|------------------------|
| ENVIRONMENTALLY HAZARDOUS:  | Yes                    |
| Danger releasing substance: | 2,2,4-trimethylpentane |

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to Directive 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

Additional information: P5c

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 12.

**Abbreviations and acronyms**

- Flam. Liq: Flammable liquid
- Asp. Tox: Aspiration hazard
- Skin Corr: Skin corrosion
- Skin Irrit: Skin irritation
- Eye Dam: Eye damage
- STOT SE: Specific target organ toxicity - single exposure
- Aquatic Acute: Acute aquatic hazard
- Aquatic Chronic: Chronic aquatic hazard

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**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 2; H225      | On basis of test data    |
| Asp. Tox. 1; H304       | Calculation method       |
| Skin Corr. 1B; H314     | Calculation method       |
| Eye Dam. 1; H318        | Calculation method       |
| STOT SE 3; H336         | Calculation method       |
| Aquatic Acute 1; H400   | Calculation method       |
| Aquatic Chronic 1; H410 | Calculation method       |

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

|      |   |
|------|---|
| H225 | Highly flammable liquid and vapour.                   |
| H226 | Flammable liquid and vapour.                          |
| H304 | May be fatal if swallowed and enters airways.         |
| H314 | Causes severe skin burns and eye damage.              |
| H315 | Causes skin irritation.                               |
| H318 | Causes serious eye damage.                            |
| H336 | May cause drowsiness or dizziness.                    |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Further Information**

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.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*