

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

#### Solvent mixture for the coul, determ, of the bromine number

Revision: 23.09.2025 Product code: AC11.00870 Page 1 of 17

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

#### 1.1. Product identifier

Solvent mixture for the coul. determ. of the bromine number UFI: C1Y3-H3MD-C00C-HTH3

#### 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: P-4050-320 Porto +351 226002917 Telephone: info@analvtichem.com F-mail: SDS service department Contact person: E-mail: SDS@analytichem.com Internet: www.analytichem.com SDS service department Responsible Department:

Supplier or manufacturer details

Company name: AnalytiChem GmbH Street: Stempelstraße 6 Place: D-47167 Duisburg Telephone: 0203/5194-0

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4B6, Canada, +1 514-457-0701

Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater

North, 3153, Australia, +61 3 9729 0333

1.4. Emergency telephone

number:

+353 1 901 4670 (CHEMTREC)



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#### **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 Met. Corr. 1; H290 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 1; H370

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

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

### Hazard components for labelling

acetic acid methanol

Signal word: Danger

Pictograms:









### Hazard statements

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H370 Causes damage to organs.

#### **Precautionary statements**

P260 Do not breathe 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**

#### 3.2. Mixtures



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#### Relevant ingredients

| CAS No    | Chemical name   |                                |                                | Quantity  |  |
|-----------|---|--------------------------------|--------------------------------|-----------|--|
|           | EC No   | Index No                       | REACH No                       |           |  |
|           | Classification (Regulation (EC                          |                                |                                |           |  |
| 64-19-7   | acetic acid   | acetic acid                    |                                |           |  |
|           | 200-580-7   | 607-002-00-6                   | 01-2119475328-30               |           |  |
|           | Flam. Liq. 3, Skin Corr. 1A, Eye Dam. 1; H226 H314 H318 |                                |                                |           |  |
| 67-56-1   | methanol  |                                |                                |           |  |
|           | 200-659-6   | 603-001-00-X                   | 01-2119433307-44               |           |  |
|           | Flam. Liq. 2, Acute Tox. 3, Acu                         | ite Tox. 3, Acute Tox. 3, STOT | SE 1; H225 H331 H311 H301 H370 |           |  |
| 7758-02-3 | potassium bromide                                       |                                |                                | 1 - < 5 % |  |
|           | 231-830-3   |                                | 01-2119962195-33               |           |  |
|           | Eye Irrit. 2; H319                                      |                                |                                |           |  |

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      | 0-7 acetic acid   |             |  |  |  |  |
|           | 1              | l: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90 n Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25   |             |  |  |  |  |
| 67-56-1   | 200-659-6      | methanol  | 20 - < 25 % |  |  |  |  |
|           |                | 60 = 128,2 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: kg; oral: LD50 = 6000 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: |             |  |  |  |  |
| 7758-02-3 | 231-830-3      | potassium bromide   | 1 - < 5 %   |  |  |  |  |
|           | dermal: LD50 = | = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg   |             |  |  |  |  |

### **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**

First aider: Pay attention to self-protection!

Call a physician immediately.

## After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

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

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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



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Protect uninjured eye.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

corrosive

Irritant

Cough

Dyspnoea

Respiratory complaints

Dizziness

#### 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

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 monoxide

Carbon dioxide

Carbon monoxide

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

# 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.

Corrosive to metals.

### For non-emergency personnel

Provide adequate ventilation.



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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.

### 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

Use extractor hood (laboratory).

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Use personal protection equipment.

Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Do not breathe vapour/aerosol.

# Advice on protection against fire and explosion

Usual measures for fire prevention.

In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

# Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

### Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

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

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



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### Requirements for storage rooms and vessels

Store in a well-ventilated place. Keep container tightly closed.

Corrosive to metals.

## Hints on joint storage

national regulations

### Further information on storage conditions

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/m³ | fib/cm³ | Category      | Origin |
|---------|----------------|-----|-------|---------|---------------|--------|
| 64-19-7 | Acetic acid    | 10  | 25    |         | TWA (8 h)     |        |
|         |                | 20  | 50    |         | STEL (15 min) |        |
| 67-56-1 | Methyl alcohol | 200 | 260   |         | TWA (8 h)     |        |

# **Biological limit values**

| CAS No  | Substance | Parameter | Value   | Test material | Sampling time |
|---------|-----------|-----------|---------|---------------|---------------|
| 67-56-1 | Methanol  | Methanol  | 15 mg/L | Urine         | End of shift  |



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# **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 DN  | EL, long-term     | inhalation     | local    | 25 mg/m³              |
| Consumer DN  | EL, acute         | inhalation     | local    | 25 mg/m³              |
| 67-56-1      | methanol          |                |          |                       |
| Consumer DN  | EL, acute         | inhalation     | systemic | 50 mg/m³              |
| Worker DNEL, | long-term         | inhalation     | systemic | 260 mg/m³             |
| Worker DNEL, | acute             | inhalation     | systemic | 260 mg/m³             |
| Worker DNEL, | long-term         | inhalation     | local    | 260 mg/m³             |
| Worker DNEL, | acute             | inhalation     | local    | 260 mg/m³             |
| Worker DNEL, | long-term         | dermal         | systemic | 40 mg/kg bw/day       |
| Worker DNEL, | acute             | dermal         | systemic | 40 mg/kg bw/day       |
| Consumer DN  | EL, long-term     | inhalation     | systemic | 50 mg/m³              |
| Consumer DNI | EL, long-term     | inhalation     | local    | 50 mg/m³              |
| Consumer DNI | EL, acute         | inhalation     | local    | 50 mg/m³              |
| Consumer DNI | EL, long-term     | dermal         | systemic | 8 mg/kg bw/day        |
| Consumer DNI | EL, acute         | dermal         | systemic | 8 mg/kg bw/day        |
| Consumer DN  | EL, long-term     | oral           | systemic | 8 mg/kg bw/day        |
| Consumer DN  | EL, acute         | oral           | systemic | 8 mg/kg bw/day        |
| 7758-02-3    | potassium bromide |                |          |                       |
| Worker DNEL, | long-term         | inhalation     | systemic | 4,75 mg/m³            |
| Worker DNEL, | long-term         | dermal         | systemic | 95 mg/kg bw/day       |
| Worker DNEL, | acute             | dermal         | systemic | 95 mg/kg bw/day       |
| Consumer DN  | EL, long-term     | inhalation     | systemic | 1,66 mg/m³            |
| Consumer DN  | EL, long-term     | dermal         | systemic | 95 mg/kg bw/day       |
| Consumer DN  | EL, acute         | dermal         | systemic | 95 mg/kg bw/day       |
| Consumer DN  | EL, long-term     | oral           | systemic | 0,475 mg/kg<br>bw/day |
| Consumer DN  | EL, acute         | oral           | systemic | 50 mg/kg bw/day       |



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#### **PNEC values**

| CAS No         | Substance                           |             |  |  |
|----------------|-------------------------------------|-------------|--|--|
| Environmental  | l compartment                       | Value       |  |  |
| 64-19-7        | acetic acid                         | ·           |  |  |
| Freshwater     |                                     | 3,058 mg/l  |  |  |
| Freshwater (in | ntermittent releases)               | 30,58 mg/l  |  |  |
| Marine water   |                                     | 0,306 mg/l  |  |  |
| Freshwater se  | reshwater sediment                  |             |  |  |
| Marine sedime  | ent                                 | 1,136 mg/kg |  |  |
| Micro-organisr | ms in sewage treatment plants (STP) | 85 mg/l     |  |  |
| Soil           |                                     | 0,47 mg/kg  |  |  |
| 67-56-1        | methanol                            |             |  |  |
| Freshwater     |                                     | 20,8 mg/l   |  |  |
| Freshwater (in | ntermittent releases)               | 1540 mg/l   |  |  |
| Marine water   |                                     | 2,08 mg/l   |  |  |
| Freshwater se  | diment                              | 77 mg/kg    |  |  |
| Marine sedime  | ent                                 | 7,7 mg/kg   |  |  |
| Micro-organisr | ms in sewage treatment plants (STP) | 100 mg/l    |  |  |
| Soil           |                                     | 100 mg/kg   |  |  |
| 7758-02-3      | potassium bromide                   |             |  |  |
| Freshwater     |                                     | 0,52 mg/l   |  |  |
| Freshwater (in | ntermittent releases)               | 109 mg/l    |  |  |
| Marine water   |                                     | 41 mg/l     |  |  |
| Micro-organisr | ms in sewage treatment plants (STP) | 100 mg/l    |  |  |
| Soil           |                                     | 3,2 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

Wear eye/face protection.

## **Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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

By long-term hand contact:

Trade name/designation: KCL 898 Butoject®



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Recommended material: Butyl caoutchouc (butyl rubber) 0,7 mm

Wearing time with permanent contact > 480 min

By short-term hand contact

Trade name/designation: KCL 890 Vitoject®

Recommended material: FKM (fluoro rubber) 0,7 mm Wearing time with occasional contact (splashes): > 115 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).

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

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.

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

The entrepeneur 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.

#### Thermal hazards

No data available

### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

### **SECTION 9: Physical and chemical properties**

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

Physical state:

Colour:

Odour:

Odour threshold:

Liquid

colourless

characteristic

No data available

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

No data available Flammability: No data available Lower explosion limits: No data available Upper explosion limits: Flash point: <23 °C Auto-ignition temperature: No data available No data available Decomposition temperature: No data available pH-Value: Viscosity / kinematic: No data available No data available Water solubility:

Solubility in other solvents

No data available

Dissolution rate:

Partition coefficient n-octanol/water:

No data available

No data available



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No data available Dispersion stability: No data available Vapour pressure: No data available Vapour pressure: ~0,98 g/cm3 Density: Relative density: No data available No data available Bulk density: No data available Relative vapour density: Particle characteristics: No data available

#### 9.2. Other information

# Information with regard to physical hazard classes

Explosive properties

In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Sustained combustibility:

No data available

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No data available

#### Other safety characteristics

Evaporation rate:

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

No data available:

Viscosity / dynamic:

Flow time:

No data available

No data available

Further Information
Corrosive to metals.

### **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air. Corrosive to metals.

# 10.2. Chemical stability

Protect against:

Heat

### 10.3. Possibility of hazardous reactions

Ammonia (NH3), Amines, Nitrogen oxides (NOx), Alkali (Iye), Fluorine, Alkali metals Alkaline earth metal, metals, Powdered metals, Methanol, Light metal, Ketone, Oxidising agent, strong

### 10.4. Conditions to avoid

Protect against:

Heat

# 10.5. Incompatible materials

Rubber articles

plastics

Metal



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#### 10.6. Hazardous decomposition products

In case of fire may be liberated: 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

### Toxicocinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

### **Acute toxicity**

Harmful if inhaled.

Harmful in contact with skin.

Harmful if swallowed.

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

#### **ATEmix** calculated

ATE (oral) 480,1 mg/kg; ATE (dermal) 1440 mg/kg; ATE (inhalation vapour) 14,40 mg/l; ATE (inhalation dust/mist) 2,400 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<br>23, PP 78-82 (194 | The sodium salt of acetic acid was admin |  |
| 67-56-1   | methanol                |               |          |         |   |  |  |
|           | oral                    | LD50<br>mg/kg | 6000     | Monkey  | Amer J Ophthalmol<br>40: 76-83 (cited in DG | Determination of the acute toxicity of t |  |
|           | dermal                  | ATE<br>mg/kg  | 300      |         |   |  |  |
|           | inhalation (4 h) vapour | LC50<br>mg/l  | 128,2    | Rat     | Study report (1980)                         | Study performed according to internal co |  |
|           | inhalation dust/mist    | ATE           | 0,5 mg/l |         |   |  |  |
| 7758-02-3 | potassium bromide       |               |          |         |   |  |  |
|           | oral                    | LD50<br>mg/kg | > 5000   | Rat     | Study report (1992)                         | EPA OPP 81-1                             |  |
|           | dermal                  | LD50<br>mg/kg | > 2000   | Rabbit  | Study report (1988)                         | other: EPA FIFRA 81-6                    |  |

### Irritation and corrosivity

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

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

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

## Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction



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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

Causes damage to organs. (methanol)

#### 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. (Pulmonary oedema Pneumonia)

### Information on likely routes of exposure

There are no data available on the mixture itself.

#### Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### Practical experience

There are no data available on the mixture itself.

#### 11.2. Information on other hazards

# **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.

#### Other information

There are no data available on the mixture itself.

#### **Further information**

corrosive

Irritant

Cough

Dyspnoea

Respiratory complaints

Dizziness

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

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



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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<br>(2005)                         | other: SOP E257                          |
|           | Acute algae toxicity     | ErC50<br>mg/l       | > 1000   | 72 h      | Skeletonema<br>costatum                            | Study report<br>(2005)                         | ISO 10253                                |
|           | Acute crustacea toxicity | EC50<br>mg/l        | > 1000   | 48 h      | Daphnia magna                                      | Study report<br>(1990)                         | OECD Guideline<br>202                    |
| 67-56-1   | methanol                 |                     |          |           |  |  |  |
|           | Acute fish toxicity      | LC50<br>mg/l        | 15400    | 96 h      | Lepomis macrochirus                                | Bulletin of<br>Environmental<br>Contamination  | other:<br>EPA-660/3-75-00<br>9, 1975     |
|           | Acute algae toxicity     | ErC50<br>22000 mg/l | ca.      | 96 h      | Pseudokirchneriella<br>subcapitata                 | Ecotoxicology and<br>Environmental<br>Safety 7 | OECD Guideline<br>201                    |
|           | Acute crustacea toxicity | EC50<br>mg/l        | > 10000  | 48 h      | Daphnia magna                                      | Water Research<br>23(4): 495-499<br>(1989)     | other: DIN 38412<br>Teil 11              |
|           | Fish toxicity            | NOEC<br>mg/l        | 446,7    | 28 d      | Pimephales<br>promelas                             | SAR and QSAR in Environmental Research,        | Calculation performed with ECOSAR        |
|           | Crustacea toxicity       | NOEC                | 208 mg/l | 21 d      | Daphnia magna                                      | OECD QSAR<br>Toolbox Report<br>(2013)          | Toxicity of the target chemical is predi |
| 7758-02-3 | potassium bromide        |                     |          |           |  |  |  |
|           | Acute fish toxicity      | LC50<br>mg/l        | > 440    | 96 h      | Scophthalmus<br>maximus                            | Study report<br>(2000)                         | OECD Guideline<br>203                    |
|           | Acute algae toxicity     | ErC50<br>mg/l       | > 440    | 72 h      | Skeletonema<br>costatum                            | Study report (2000)                            | OECD Guideline<br>201                    |
|           | Acute crustacea toxicity | EC50<br>mg/l        | > 100    | 48 h      | Daphnia magna                                      | Study report<br>(1996)                         | OECD Guideline<br>202                    |
|           | Fish toxicity            | NOEC                | 10 mg/l  | 124 d     | Poecilia reticulata                                | Fd. Chem. Toxic.<br>Vol. 21, No. 4,<br>369-378 | Dutch<br>Standardisation<br>Organisation |
|           | Crustacea toxicity       | NOEC                | 7,5 mg/l | 21 d      | Daphnia magna                                      | Ecotoxicology and Environmental Safety,        | other: OECD                              |
|           | Acute bacteria toxicity  | EC50<br>mg/l ( )    | > 1000   | 3 h       | activated sludge of a predominantly domestic sewag | Study report<br>(2007)                         | OECD Guideline<br>209                    |

## 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.



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#### Partition coefficient n-octanol/water

| CAS No  | Chemical name | Log Pow |
|---------|---------------|---------|
| 64-19-7 | acetic acid   | -0,17   |
| 67-56-1 | methanol      | -0,77   |

#### **BCF**

| CAS No    | Chemical name     | BCF  | Species         | Source               |
|-----------|-------------------|------|-----------------|----------------------|
| 64-19-7   | acetic acid       | 3,16 | fish            | Environ. Toxicol. Ch |
| 67-56-1   | methanol          | 1    | Cyprinus carpio | Comparative Biochemi |
| 7758-02-3 | potassium bromide | 0,23 | Artemia salina  | Environmental Toxico |

#### 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

Discharge into the environment must be avoided.

#### **Further information**

Do not allow to enter into surface water or drains.

# **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.

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

| 14.1. UN | number | or ID number: | UN 2924 |
|----------|--------|---------------|---------|
|          |        |               |         |

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetic acid, methanol)

14.3. Transport hazard class(es): 3 П 14.4. Packing group: 3+8 Hazard label: Classification code: FC 274 Special Provisions: 1 I Limited quantity: Excepted quantity: F2 Transport category: 338 Hazard No: D/E Tunnel restriction code:



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Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetic acid, methanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8Classification code:FCSpecial Provisions:274Limited quantity:1 LExcepted quantity:E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 2924

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetic acid, methanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8Special Provisions:274Limited quantity:1 LExcepted quantity:E2EmS:F-E, S-C

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetic acid, methanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8Special Provisions:A3Limited quantity Passenger:0.5 LPassenger LQ:Y340Excepted quantity:E2

IATA-packing instructions - Passenger:352IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:363IATA-max. quantity - Cargo:5 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### **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 69, Entry 75

Information according to Directive

•

2012/18/EU (SEVESO III):

Additional information: P5c

Additional information.

**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

H3 STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

nursing mothers.



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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): 1,2,5,8,9,11,14.

#### Abbreviations and acronyms

Met. Corr. 1: Corrosive to metals, hazard category 1 Flam. Liq. 2: Flammable liquids, hazard category 2 Acute Tox. 3: Acute toxicity, hazard category 3 Skin Corr. 1A: Skin corrosion, sub-category 1A Eye Dam. 1: Serious eye damage, hazard category 1

Eye Irrit. 2: Eye irritation, hazard category 2

STOT SE 1: Specific target organ toxicity - single exposure, hazard category 1

#### 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    |  |
| Met. Corr. 1; H290  | On basis of test data    |  |
| Acute Tox. 4; H332  | Calculation method       |  |
| Acute Tox. 4; H312  | Calculation method       |  |
| Acute Tox. 4; H302  | Calculation method       |  |
| Skin Corr. 1B; H314 | Calculation method       |  |
| Eye Dam. 1; H318    | Calculation method       |  |
| STOT SE 1; H370     | Calculation method       |  |

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

| H225           | Highly flammable liquid and vapour.                       |
|----------------|---|
| H226           | Flammable liquid and vapour.                              |
| H290           | May be corrosive to metals.                               |
| H301           | Toxic if swallowed.                                       |
| H302           | Harmful if swallowed.                                     |
| H302+H312+H332 | Harmful if swallowed, in contact with skin or if inhaled. |
| H311           | Toxic in contact with skin.                               |
| H312           | Harmful in contact with skin.                             |
| H314           | Causes severe skin burns and eye damage.                  |
| H318           | Causes serious eye damage.                                |
| H319           | Causes serious eye irritation.                            |
| H331           | Toxic if inhaled.   |
| H332           | Harmful if inhaled.                                       |
| H370           | Causes damage to organs (eyes, central nervous system).   |
| H370           | Causes damage to organs.                                  |

#### **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.

Provide appropriate information, instructions and training to users



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