

Safety Data Sheet

according to Regulation (EC) N° 1907/2006 (REACH)
Designation / Trade name: 1711 _ Kit Legio EZ
Version: US, Page 1 of 11, Revision date: 05/03/2019



Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification du produit :

Substances

Substance name:

CAS No.:

Index No:

EC No:

REACH No:

Mixtures

Designation / Trade name: 1711_Kit Legio EZ

Other means of identification:

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

Relevant identified uses: Use of the substance or mixture for water monitoring;

Uses advised against: Do not use for therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:

Supplier :

Name: C4Hydro

Address: 163, avenue de Luminy, 13288 Marseille Cedex 8

E-mail : support@c4hydro.com

1.4 EMERGENCY TELEPHONE NUMBER:

Tel : +33 (0)4 86 94 85 07 - Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2. Hazards identification

2.1 Classification of the substance or mixture:

The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008.

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

2.2 Label elements

None

2.3 Other hazards

None

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) \geq 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

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Section 3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients :

| Substance name | CAS n° | Index n° | EC n° | Classification according Regulation (EC) No. 1272 [CLP] | SCL | M-factor | Concentration |
|-------------------|-----------|--------------|-----------|--|---|----------|---------------|
| Hydrochloric Acid | 7647-01-0 | 017-002-01-X | 231-595-7 | Met. Corr. 1; Skin Corr. 1B; STOT SE 3; H290, H314, H335 | >= 25 %: Skin Corr. 1B, H314; 10 - < 25 %: Skin Irrit. 2, H315; 10 - < 25 %: Eye Irrit. 2, H319; >= 10 %: STOT SE 3, H335; >= 0,1 %: Met. Corr. 1, H290 | | <0.1% |

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

Section 4. First aid measures

4.1 Description of first aid measures

General informations:

In the immediate working surroundings there must be: Emergency shower and eyes rinses

Following inhalation:

In case of respiratory tract irritation, consult a physician. ; Provide fresh air. ;

Following skin contact:

After contact with skin, wash immediately with water and soap ; Remove contaminated clothing ;

Following eye contact:

After contact with the eyes, rinse with water with the eyelids open for 10 to 15 minutes, then consult an ophthalmologist immediately. ;

Following ingestion:

Do NOT induce vomiting. ; Give nothing to eat or drink. ; If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. ;

Self-protection of the first aider:

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms: see section 2.2 or 11
No known symptoms to date. ;

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:
Special treatment:

Section 5. Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:
This product is not flammable. Use extinguishing agent suitable for type of surrounding fire ;
Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

5.3 Advice for fire-fighters

Wear Protective clothing. ;
Additional information:

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
Emergency procedures: Provide adequate ventilation. ; Emergency procedures: Remove persons to safety. ; Personal precautions: Use personal protection equipment (see section 8). ;
For emergency responders:

6.2 Environmental precautions

Do not allow to enter into surface water or drains. ; Ensure all waste water is collected and treated via a waste water treatment plant. ;

6.3 Methods and material for containment and cleaning up

For containment:
For cleaning up:
Suitable material for taking up: Absorbing material, organic ;
Other information:

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6.4 Reference to other sections

Additional information:

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures:

Advice on safe handling:

Avoid contact with skin, eyes and clothes. ;

Avoid: Eye contact ; Avoid: Generation/formation of aerosols ;

Avoid: Skin contact ; Avoid: inhalation ;

Do not eat, drink or smoke in areas where reagents are handled. ; Do not pipet by mouth ; Wear suitable one-way rubber gloves at work

Advice on general occupational hygiene

Wash hands before breaks and after work. ;

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed. ; Keep-store only in original container or in properly labeled containers ;

Hints on storage assembly:

Materials to avoid: Metals

Further information on storage conditions:

7.3 Specific end uses:

Recommendations on specific end uses:

Observe technical data sheet. ;

Section 8. Exposure controls/ Personal protection

8.1 Control parameters

Preliminary remark: Mixture contains a substance with occupational exposure limits : Hydrochloric acid.

8.1.1 Occupational exposure limits:

- France
VLCT (VLE) = 5 ppm
7.6 mg/m³

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STEL = 10 ppm
15 mg/ m³

TWA = 5 ppm
8 mg/ m³

- UK

STEL = 5 ppm
8 mg/ m³

TWA = 1 ppm
2 mg/ m³

- USA

STEL = 5 ppm

8.2 Exposure controls

8.2.1 Mesures techniques :

Handle in accordance with good industrial hygiene and safety practice
Wash hands before breaks and after work.

8.2.2 Personal protective equipment:

Skin protection:

Gloves ; Control gloves before each handling ;
Recommended Gloves :
Matériel: Nitrile Rubber
Minimum Thickness : 0,11 mm
Délai de rupture: 480 min

Laboratory coats

Respiratory protection:

Ensure adequate ventilation ;
Avoid vapors generation

8.2.3 Environmental exposure controls:

Consumer exposure control

Measures related to consumer uses of the substance (as such or in mixtures):

Measures related to the service life of the substance in articles:

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Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|------------------------|-----------|
| Physical state | Liquid |
| Colour | Colorless |
| Odour | NA |
| Odour threshold (ppm) | NA |
| Odour threshold remark | |

NA : not available

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| | | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---|--|-----------------------|--------|------------------|----------------|--------|
| pH | | 2.1 | | | | | |
| Melting point (°C) | | NA | | | | | |
| Freezing point (°C) | | NA | | | | | |
| Initial boiling point/boiling range (°C) | | NA | | | | | |
| Flash point (°C) | | / | | | | | |
| Evaporation rate (kg/m ² /h) | | NA | | | | | |
| Flammability (type :) (%) | | / | | | | | |
| Upper/lower flammability or explosive limits | Upper explosive limit (%) | / | | | | | |
| | Lower explosive limit (%) | / | | | | | |
| Vapour pressure (kPa) | | NA | | | | | |
| Vapour density (g/cm ³) | | NA | | | | | |
| Densities | Density (g/cm ³) | NA | | | | | |
| | Relative density (g/cm ³) | NA | | | | | |
| | Bulk density (g/cm ³) | NA | | | | | |
| | Critical density (g/cm ³) | NA | | | | | |
| Solubility (Type :) (g/L) | | NA | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | NA | | | | | |
| Auto-ignition temperature (°C) | | / | | | | | |
| Decomposition temperature (°C) | | NA | | | | | |
| Decomposition energy : kJ | | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | NA | | | | | |
| | Viscosity, cinematic (cm ² /s) | NA | | | | | |
| Explosive properties | Thermal Sensitivity (°C) | / | | | | | |
| | Number of fragments : Diameter of the orifice plate / limiting diameter : (mm) | / | | | | | |
| | Sensitiveness to impact (m) Impact energy : (kJ) | / | | | | | |
| | Sensitiveness to friction Friction load : (g) | / | | | | | |
| | | | | | | | |
| Oxidising properties | Oxidising Liquids | Mean pressure rise time of test mixture (s) | / | | | | |
| | | Mean pressure rise time of reference mixture (s) | / | | | | |
| | Oxidising Solids | Duration of the reaction in the preliminary test for the reference substance (s) | / | | | | |
| | | Duration of the reaction in the preliminary test for the test substance (s) | / | | | | |
| | | Maximum burning rate (mixture of test substance) | / | | | | |
| | | Maximum burning rate (reference mixture) | / | | | | |
| | Oxidising Gases | Calculated oxidation potential of the mixture (OP) (V) | / | | | | |
| | | Xi molar fraction of the oxidizing component | / | | | | |
| | | Coefficient of oxygen equivalency (%) | / | | | | |

9.2 Other information:

No other relevant data available

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Section 10. Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

Material stable under normal use conditions

10.3 Possibility of hazardous reactions

Material stable under normal use conditions

10.4 Conditions to avoid:

10.5 Incompatible materials:

Materials to avoid: Amines, Caustic solutions, Alkalis metals, Metals, , permanganates as potassium permanganate, Fluorine, metal acetylides

10.6 Hazardous decomposition products:

Do not decompose when used for intended uses. ;
Thermal decomposition can lead to the escape of irritating gases and vapors. ;

Section 11. Toxicological information

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

- Acute toxicity

Data not available (Hydrochloric acid)

Inhalation can lead to symptoms as respiratory irritation, coughs, difficulties in breathing, pneumonia (Hydrochloric acid)

- Carcinogenicity

This mixture does not contain any substances classified as carcinogenic

Hydrochloric Acid : Not classified

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Section 12. Ecological information

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method); in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:

No data available for the mixture

Acute (short-term) fish toxicity

CL50 – *Lepomis macrochirus* – 24,6 mg/l – 96 h (Hydrochloric acid)

12.2 Persistence and degradability

Data not available

12.3 Bioaccumulative potential

Data not available

12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

12.6 Other adverse effects:

Can be harmful for aquatic life because of its acid pH. Do not put this product in the water evacuation neither in the environment.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation. ;

Additional information:

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Section 14. Transport information

ADR/RID/AND/IMDG/IATA

| | |
|----------------------------|----------------|
| UN No. | Not applicable |
| UN Proper shipping name | Not applicable |
| Transport hazard class(es) | Not applicable |
| Hazard label(s) | Not applicable |
| Packing group | Not applicable |

Section 15. Regulatory information

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

EU regulations

- Authorisations and/or restrictions on use: None

Authorisations:

Restrictions on use:

SVHC :

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

- Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

Not relevant

- Directive 2004/42/CE on the limitation of emissions of volatile organic compounds

Not relevant

- Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases.

Not relevant

- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Not relevant

National regulations

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15.2 Chemical Safety Assessment:

Remark:

For the following substances of this mixture a chemical safety assessment has been carried out : No

Section 16. Other information

16.1 Indication of changes

Date of the previous version: 16/11/2017

Modifications: Designation

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

16.5 Relevant R-, H- and EUH-phrases (number and full text):

H290 : May be corrosive to metals.

H314 : Causes severe skin burns and eye damage.

H335 : May cause respiratory irritation.

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Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification du produit :

Substances

Substance name:

CAS No.:

Index No:

EC No:

REACH No:

Mixtures

Designation / Trade name: 1712 _ Kit Legio EZ

Other means of identification:

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

Relevant identified uses: Use of the substance or mixture for water monitoring ;

Uses advised against: Do not use for therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:

Supplier :

Name: C4Hydro

Address: 163, avenue de Luminy, 13288 Marseille Cedex 8

E-mail : support@c4hydro.com

1.4 EMERGENCY TELEPHONE NUMBER:

Tel : +33 (0)4 86 94 85 07 - Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2. Hazards identification

2.1 Classification of the substance or mixture:

The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008.

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

2.2 Label elements

None

2.3 Other hazards

None

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The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

Section 3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients :

The mixture does not contain any hazardous substances as defined in regulation n°1272/2008

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

Section 4. First aid measures

4.1 Description of first aid measures

Not necessary

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: see section 2.2 or 11

No known symptoms to date. ;

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Special treatment:

Section 5. Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

This product is not flammable. Use extinguishing agent suitable for type of surrounding fire ;

Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

5.3 Advice for fire-fighters

Wear Protective clothing. ;

Additional information:

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Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not applicable

6.2 Environmental precautions

Not applicable

6.3 Methods and material for containment and cleaning up

For containment:

For cleaning up:

Suitable material for taking up: Absorbing material, organic ;

Other information:

6.4 Reference to other sections

Additional information:

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures:

Not applicable

Advice on general occupational hygiene

Not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed. ; Keep-store only in original container or in properly labeled containers ;

Hints on storage assembly:

Materials to avoid: /

Further information on storage conditions:

7.3 Specific end uses:

Recommendations on specific end uses:

Observe technical data sheet. ;

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Section 8. Exposure controls/ Personal protection

8.1 Control parameters

Preliminary remark: Mixture does not contain a substance with occupational exposure limits

8.1.1 Occupational exposure limits:

8.2 Exposure controls

8.2.1 Mesures techniques :

/

8.2.2 Personal protective equipment:

/

8.2.3 Environmental exposure controls:

/

Measures related to consumer uses of the substance (as such or in mixtures):

Measures related to the service life of the substance in articles:

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|------------------------|-----------|
| Physical state | Liquid |
| Colour | Colorless |
| Odour | NA |
| Odour threshold (ppm) | NA |
| Odour threshold remark | |

NA : not available

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| | | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---|--|-----------------------|--------|------------------|----------------|--------|
| pH | | 7 | | | | | |
| Melting point (°C) | | | | | | | |
| Freezing point (°C) | | | | | | | |
| Initial boiling point/boiling range (°C) | | 100°C | | | | | |
| Flash point (°C) | | / | | | | | |
| Evaporation rate (kg/m ² /h) | | NA | | | | | |
| Flammability (type :) (%) | | / | | | | | |
| Upper/lower flammability or explosive limits | Upper explosive limit (%) | / | | | | | |
| | Lower explosive limit (%) | / | | | | | |
| Vapour pressure (kPa) | | NA | | | | | |
| Vapour density (g/cm ³) | | NA | | | | | |
| Densities | Density (g/cm ³) | NA | | | | | |
| | Relative density (g/cm ³) | NA | | | | | |
| | Bulk density (g/cm ³) | NA | | | | | |
| | Critical density (g/cm ³) | NA | | | | | |
| Solubility (Type :) (g/L) | | NA | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | NA | | | | | |
| Auto-ignition temperature (°C) | | / | | | | | |
| Decomposition temperature (°C) | | NA | | | | | |
| Decomposition energy : kJ | | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | NA | | | | | |
| | Viscosity, cinematic (cm ² /s) | NA | | | | | |
| Explosive properties | Thermal Sensitivity (°C) | / | | | | | |
| | Number of fragments : Diameter of the orifice plate / limiting diameter : (mm) | | | | | | |
| | Sensitiveness to impact (m) Impact energy : (kJ) | / | | | | | |
| | Sensitiveness to friction Friction load : (g) | / | | | | | |
| | | | | | | | |
| Oxidising properties | Oxidising Liquids | Mean pressure rise time of test mixture (s) | / | | | | |
| | | Mean pressure rise time of reference mixture (s) | / | | | | |
| | Oxidising Solids | Duration of the reaction in the preliminary test for the reference substance (s) | / | | | | |
| | | Duration of the reaction in the preliminary test for the test substance (s) | / | | | | |
| | | Maximum burning rate (mixture of test substance) | / | | | | |
| | | Maximum burning rate (reference mixture) | / | | | | |
| | Oxidising Gases | Calculated oxidation potential of the mixture (OP) (V) | / | | | | |
| | | Xi molar fraction of the oxidizing component | / | | | | |
| Coefficient of oxygen equivalency (%) | | / | | | | | |

9.2 Other information:

No other relevant data available

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Section 10. Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

Material stable under normal use conditions

10.3 Possibility of hazardous reactions

Material stable under normal use conditions

10.4 Conditions to avoid:

10.5 Incompatible materials:

Materials to avoid: /

10.6 Hazardous decomposition products:

Do not decompose when used for intended uses. ;

Section 11. Toxicological information

Toxicokinetics, metabolism and distribution

Not applicable

Section 12. Ecological information

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method); in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:

Data not available

12.2 Persistence and degradability

Data not available

12.3 Bioaccumulative potential

Data not available

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12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

12.6 Other adverse effects:

/

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste treatment options:

Additional information:

Section 14. Transport information

ADR/RID/AND/IMDG/IATA

| | |
|----------------------------|----------------|
| UN No. | Not applicable |
| UN Proper shipping name | Not applicable |
| Transport hazard class(es) | Not applicable |
| Hazard label(s) | Not applicable |
| Packing group | Not applicable |

Section 15. Regulatory information

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

Not applicable

15.2 Chemical Safety Assessment:

Remark:

For the following substances of this mixture a chemical safety assessment has been carried out : No

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Section 16. Other information

16.1 Indication of changes

Date of the previous version: 16/11/2017

Modifications: Designation

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

16.5 Relevant R-, H- and EUH-phrases (number and full text):

/

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according to Regulation (EC) N° 1907/2006 (REACH)
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Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification du produit :

Substances

Substance name:

CAS No.:

Index No:

EC No:

REACH No:

Mixtures

Designation / Trade name: 1716_Kit Legio EZ Test

Other means of identification:

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

Relevant identified uses: Use of the substance or mixture for water monitoring;

Uses advised against: Do not use for therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:

Supplier :

Name: C4Hydro

Address: 163, avenue de Luminy, 13288 Marseille Cedex 8

E-mail : support@c4hydro.com

1.4 EMERGENCY TELEPHONE NUMBER:

Tel : +33 (0)4 86 94 85 07 - Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2. Hazards identification

2.1 Classification of the substance or mixture:

| Classification according to Regulation (EC) No 1272/2008 [CLP] | Category code | Hazard statement | Precautionary statement |
|--|---------------|------------------|-------------------------|
| Flammable Liquid, Category 2 | Flam. Liq. 2 | H225 | P210 P243 |

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2.2 Label elements

Product identifier:

Hazard pictogram

GHS02



Signal word:

Danger

Hazard and precautionary statements:

| Code | Hazard and Precautionary Statement |
|------|---|
| H225 | Highly Flammable liquid and vapour. |
| P210 | Do not spray on an open flame or other ignition source. |
| P243 | Take precautionary measures against static discharge |

2.3 Other hazards

None

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

Section 3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients :

| Substance name | CAS n° | Index n° | EC n° | Classification according Regulation (EC) No. 1272 [CLP] | SCL | M-factor | Concentration |
|----------------|---------|--------------|-----------|---|-----|----------|---------------|
| Ethanol | 64-17-5 | 603-002-00-5 | 201-159-0 | Flammable Liquid, Category 2 – H225 | | | 80-90 % |

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

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Section 4. First aid measures

4.1 Description of first aid measures

General informations:

In the immediate working surroundings there must be: Emergency shower and eyes rinses

Following inhalation:

In case of respiratory tract irritation, consult a physician. ; Provide fresh air. ;

Following skin contact:

After contact with skin, wash immediately with water and soap ; Remove contaminated clothing ;

Following eye contact:

After contact with the eyes, rinse with water with the eyelids open for 10 to 15 minutes, then consult an ophthalmologist immediately. ;

Following ingestion:

Do NOT induce vomiting. ; Give nothing to eat or drink. ; If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. ;

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: see section 2.2 or 11

No known symptoms to date. ;

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Special treatment:

Section 5. Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

This product is flammable. Use extinguishing agent : extinguishing powder or water+additive ;

Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon Dioxide and monoxide

5.3 Advice for fire-fighters

Wear Protective clothing and if necessary breathing apparatus insulating ;

Additional information:

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Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. ; Ensure all waste water is collected and treated via a waste water treatment plant. ;

6.3 Methods and material for containment and cleaning up

Suitable material for taking up: Absorbing material, organic ;
Store soiled materials in a cool place and in a container closed. Avoid discharge in sewer and evacuate as dangerous waste.
Other information:

6.4 Reference to other sections

Additional information:

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures:

Advice on safe handling:

Keep away from ignition sources. Do not smoke

Avoid build-up of electrostatic charges
Avoid contact with skin, eyes and clothes. ;
Avoid: Eye contact ; Avoid: Generation/formation of aerosols ;
Avoid: Skin contact ; Avoid: inhalation ;

Do not eat, drink or smoke in areas where reagents are handled. ; Do not pipet by mouth ;
Wear suitable one-way rubber gloves at work

Advice on general occupational hygiene

Remove contaminated, saturated clothing. ; Wash hands before breaks and after work. ;

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed and vertical. ; Keep-store only in original container or in properly labeled containers ;
Materials to avoid : Metals

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7.3 Specific end uses:

Recommendations on specific end uses:

Observe technical data sheet. ;

Section 8. Exposure controls/ Personal protection

8.1 Control parameters

Preliminary remark: Mixture contains a substance with occupational exposure limits : Ethanol

8.1.1 Occupational exposure limits:

- France

VLE = 5 000 ppm
9 500 mg/m³

VME = 1 000 ppm
1 900 mg/m³

- UK

TWA = 1 000 ppm
1 920 mg/m³

- USA

TWA = 1 000 ppm
1 920 mg/m³

8.2 Exposure controls

8.2.1 Mesures techniques :

Handle in accordance with good industrial hygiene and safety practice

Wash hands before breaks and after work.

Ensure adequate ventilation.

8.2.2 Personal protective equipment:

Skin protection:

Gloves ; Control gloves before each handling ;

Recommended Gloves :

Matériau: Nitrile Rubber

Minimum Thickness : 0,425 mm

Délai de rupture: 480 min

Laboratory coats

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Respiratory protection:

Ensure adequate ventilation ;
Avoid vapors generation

8.2.3 Environmental exposure controls:

Consumer exposure control

Measures related to consumer uses of the substance (as such or in mixtures):

Measures related to the service life of the substance in articles:

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|------------------------|-----------|
| Physical state | Liquid |
| Colour | Colorless |
| Odour | NA |
| Odour threshold (ppm) | NA |
| Odour threshold remark | |

NA : not available

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| | | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---|--|-----------------------|--------|------------------|----------------|--------|
| pH | | 7 | | | | | |
| Melting point (°C) | | NA | | | | | |
| Freezing point (°C) | | NA | | | | | |
| Initial boiling point/boiling range (°C) | | -100 / -114°C | | | | | |
| Flash point (°C) | | >78.3°C | | Closed | | | |
| Evaporation rate (kg/m ² /h) | | >22°C | | | | | |
| Flammability (type :) (%) | | ND | | | | | |
| Upper/lower flammability or explosive limits | Upper explosive limit (%) | 3.5% vol | | | | | |
| | Lower explosive limit (%) | 15% vol | | | | | |
| Vapour pressure (kPa) | | NA | | | | | |
| Vapour density (g/cm ³) | | NA | | | | | |
| Densities | Density (g/cm ³) | NA | | | | | |
| | Relative density (g/cm ³) | NA | | | | | |
| | Bulk density (g/cm ³) | NA | | | | | |
| | Critical density (g/cm ³) | NA | | | | | |
| Solubility (Type :) (g/L) | | NA | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | NA | | | | | |
| Auto-ignition temperature (°C) | | / | | | | | |
| Decomposition temperature (°C) | | NA | | | | | |
| Decomposition energy : kJ | | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | NA | | | | | |
| | Viscosity, cinematic (cm ² /s) | NA | | | | | |
| Explosive properties | Thermal Sensitivity (°C) | / | | | | | |
| | Number of fragments : Diameter of the orifice plate / limiting diameter : (mm) | | | | | | |
| | Sensitiveness to impact (m) Impact energy : (kJ) | / | | | | | |
| | Sensitiveness to friction Friction load : (g) | / | | | | | |
| | | | | | | | |
| Oxidising properties | Oxidising Liquids | Mean pressure rise time of test mixture (s) | / | | | | |
| | | Mean pressure rise time of reference mixture (s) | / | | | | |
| | Oxidising Solids | Duration of the reaction in the preliminary test for the reference substance (s) | / | | | | |
| | | Duration of the reaction in the preliminary test for the test substance (s) | / | | | | |
| | | Maximum burning rate (mixture of test substance) : | / | | | | |
| | | Maximum burning rate (reference mixture) | / | | | | |
| | Oxidising Gases | Calculated oxidation potential of the mixture (OP) (V) | / | | | | |
| Xi molar fraction of the oxidizing component | | / | | | | | |
| Coefficient of oxygen equivalency (%) | | / | | | | | |

3.3 Other information:

No other relevant data available

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Section 10. Stability and reactivity

10.1 Reactivity

Ignition Risk. Vapors can lead to explosive atmosphere.

10.2 Chemical stability

Material stable under normal use conditions

10.3 Possibility of hazardous reactions

Alkalys Metals, acetic anhydre, peroxides, phosphore oxides, high combustives, nitric acid, nitrate, perchlorate → Explosion hazard

10.4 Conditions to avoid:

Keep away from heat, hot surfaces, all kinds of ignition sources. Do not smoke

10.5 Incompatible materials:

Materials to avoid: Plastic and rubber

10.6 Hazardous decomposition products:

CO
CO2

Section 11. Toxicological information

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substance : Ethanol

- Acute toxicity
 - Inhalation LC50 (rat) = 95.6 mg/4h
 - Ingestion LD50 (rat) = 7060 mg/kg

No data available for the mixture

Section 12. Ecological information

In case of test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method); in this case the toxicological data of the ingredients are shown.

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12.1 Aquatic toxicity:

No data available for the mixture

Acute Toxicity

CL50 – ide melanote – 8.140 mg/l – 96 h (ETHANOL)

DL50 – DAPHNIA MAGNA – > 9 000 mg/l – 48h (ETHANOL)

12.2 Persistence and degradability

Degradability rate 94% (component ethanol)

12.3 Bioaccumulative potential

No significative accumulation in organisms (log KOW ethanol = -0.31)

12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

12.6 Other adverse effects:

Potential of Hazard for water.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste treatment options: Dangerous Waste
Dispose of waste according to applicable legislation. ;

Additional information:

Section 14. Transport information

ADR/RID/AND/IMDG/IATA

| | |
|----------------------------|-----------------------|
| UN No. | 1170 |
| UN Proper shipping name | Ethanol Solution |
| Transport hazard class(es) | 3 (flammable liquids) |
| Hazard label(s) | 3 |
| Packing group | II |

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Section 15. Regulatory information

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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use:

SVHC :

- Other EU regulations:

SEVESO III for Flammable liquids

Directive VOC : VOC content : 70%

National regulations

15.2 Chemical Safety Assessment:

Remark:

For the following substances of this mixture a chemical safety assessment has been carried out : No

Section 16. Other information

16.1 Indication of changes

Date of the previous version: 08/11/2017

Modifications: Designation

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

16.5 Relevant R-, H- and EUH-phrases (number and full text):

H225 : Highly flammable liquid and vapour

H319 : Causes serious eye irritation.

H336 : May cause drowsiness or dizziness.

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Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification du produit :

Substances

Substance name:

CAS No.:

Index No:

EC No:

REACH No:

Mixtures

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Other means of identification:

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

Relevant identified uses: Use of the substance or mixture for water monitoring ;

Uses advised against: Do not use for therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:

Supplier :

Name: C4Hydro

Address: 163, avenue de Luminy, 13288 Marseille Cedex 8

E-mail : support@c4hydro.com

1.4 EMERGENCY TELEPHONE NUMBER:

Tel : +33 (0)4 86 94 85 07 - Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2. Hazards identification

2.1 Classification of the substance or mixture:

The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008.

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

2.2 Label elements

None

2.3 Other hazards

None

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

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Section 3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients :

This product does not contain any hazardous substances at concentrations defined in the regulation.

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

Section 4. First aid measures

4.1 Description of first aid measures

Following skin contact:

After contact with skin, wash immediately with water and soap ; Remove contaminated clothing ;

Following eye contact:

After contact with the eyes, rinse with water with the eyelids open for 10 to 15 minutes, then consult an ophthalmologist immediately. ;

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: see section 2.2 or 11

No known symptoms to date. ;

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Special treatment:

Section 5. Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

This product is not flammable. Use extinguishing agent suitable for type of surrounding fire ;

Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:/

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5.3 Advice for fire-fighters

Wear Protective clothing. ;

Additional information:

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not applicable

6.2 Environmental precautions

Not applicable

6.3 Methods and material for containment and cleaning up

For containment:

For cleaning up:

Suitable material for taking up: Absorbing material, organic ;

Other information:

6.4 Reference to other sections

Additional information:

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures:

Do not pipet by mouth ;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ; Observe technical data sheet.

Wash hands before breaks and after work. ;

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed. ; Keep-store only in original container or in properly labeled containers ;

Hints on storage assembly:

Materials to avoid: /

Further information on storage conditions:

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7.3 Specific end uses:

Recommendations on specific end uses:

Observe technical data sheet. ;

Section 8. Exposure controls/ Personal protection

8.1 Control parameters

Preliminary remark: Mixture does not contain a substance with occupational exposure limits

8.1.1 Occupational exposure limits:

8.2 Exposure controls

8.2.1 Mesures techniques :

/

8.2.2 Personal protective equipment:

/

8.2.3 Environmental exposure controls:

/

Measures related to consumer uses of the substance (as such or in mixtures):

Measures related to the service life of the substance in articles:

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|------------------------|--------|
| Physical state | Solid |
| Colour | Yellow |
| Odour | NA |
| Odour threshold (ppm) | NA |
| Odour threshold remark | |

NA : not available

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| | | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---|--|-----------------------|--------|------------------|----------------|--------|
| pH | | NA | | | | | |
| Melting point (°C) | | | | | | | |
| Freezing point (°C) | | | | | | | |
| Initial boiling point/boiling range (°C) | | | | | | | |
| Flash point (°C) | | / | | | | | |
| Evaporation rate (kg/m ² /h) | | NA | | | | | |
| Flammability (type :) (%) | | / | | | | | |
| Upper/lower flammability or explosive limits | Upper explosive limit (%) | / | | | | | |
| | Lower explosive limit (%) | / | | | | | |
| Vapour pressure (kPa) | | NA | | | | | |
| Vapour density (g/cm ³) | | NA | | | | | |
| Densities | Density (g/cm ³) | NA | | | | | |
| | Relative density (g/cm ³) | NA | | | | | |
| | Bulk density (g/cm ³) | NA | | | | | |
| | Critical density (g/cm ³) | NA | | | | | |
| Solubility (Type :) (g/L) | | NA | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | NA | | | | | |
| Auto-ignition temperature (°C) | | / | | | | | |
| Decomposition temperature (°C) | | NA | | | | | |
| Decomposition energy : kJ | | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | NA | | | | | |
| | Viscosity, cinematic (cm ² /s) | NA | | | | | |
| Explosive properties | Thermal Sensitivity (°C) | / | | | | | |
| | Number of fragments : Diameter of the orifice plate / limiting diameter : (mm) | | | | | | |
| | Sensitiveness to impact (m) Impact energy : (kJ) | / | | | | | |
| | Sensitiveness to friction Friction load : (g) | / | | | | | |
| | | | | | | | |
| Oxidising properties | Oxidising Liquids | Mean pressure rise time of test mixture (s) | / | | | | |
| | | Mean pressure rise time of reference mixture (s) | / | | | | |
| | Oxidising Solids | Duration of the reaction in the preliminary test for the reference substance (s) | / | | | | |
| | | Duration of the reaction in the preliminary test for the test substance (s) | / | | | | |
| | | Maximum burning rate (mixture of test substance) | / | | | | |
| | | Maximum burning rate (reference mixture) | / | | | | |
| | Oxidising Gases | Calculated oxidation potential of the mixture (OP) (V) | / | | | | |
| | | Xi molar fraction of the oxidizing component | / | | | | |
| Coefficient of oxygen equivalency (%) | | / | | | | | |

9.2 Other information:

No other relevant data available

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Section 10. Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

Material stable under normal use conditions

10.3 Possibility of hazardous reactions

Material stable under normal use conditions

10.4 Conditions to avoid:

10.5 Incompatible materials:

Materials to avoid: /

10.6 Hazardous decomposition products:

Do not decompose when used for intended uses. ;

Section 11. Toxicological information

Toxicokinetics, metabolism and distribution

Not applicable

Section 12. Ecological information

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method); in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:

Data not available

12.2 Persistence and degradability

Data not available

12.3 Bioaccumulative potential

Data not available

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12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

12.6 Other adverse effects:

/

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste treatment options:

Additional information:

Section 14. Transport information

ADR/RID/AND/IMDG/IATA

| | |
|----------------------------|----------------|
| UN No. | Not applicable |
| UN Proper shipping name | Not applicable |
| Transport hazard class(es) | Not applicable |
| Hazard label(s) | Not applicable |
| Packing group | Not applicable |

Section 15. Regulatory information

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

Not applicable

15.2 Chemical Safety Assessment:

Remark:

For the following substances of this mixture a chemical safety assessment has been carried out : No

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Section 16. Other information

16.1 Indication of changes

Date of the previous version: 16/11/2017

Modifications: Designation

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

16.5 Relevant R-, H- and EUH-phrases (number and full text):

/

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Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification du produit :

Substances

Substance name:

CAS No.:

Index No:

EC No:

REACH No:

Mixtures

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Other means of identification:

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

Relevant identified uses: Use of the substance or mixture for water monitoring

Uses advised against: Do not use for therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:

Supplier :

Name: C4Hydro

Address: 163, avenue de Luminy, 13288 Marseille Cedex 8

E-mail : support@c4hydro.com

1.4 EMERGENCY TELEPHONE NUMBER:

Tel : +33 (0)4 86 94 85 07 - Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2. Hazards identification

2.1 Classification of the substance or mixture:

The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008.

2.2 Label elements

None

2.3 Other hazards

None

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

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Section 3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients :

| Substance name | CAS n° | Index n° | EC n° | Classification according Regulation (EC) No. 1272 [CLP] | SCL | M-factor | Concentration |
|-------------------|-----------|--------------|-----------|--|---|----------|---------------|
| Hydrogen Peroxide | 7722-84-1 | 008-003-00-9 | 231-765-0 | Ox. Liq. 1; Acute Tox. 4; Skin Corr. 1A; Eye Dam. 1 ; STOT SE 3; Aquatic Chronic 3; H271, H302, H332, H314, H318, H335, H412 | >= 70 %: Ox. Liq. 1, H271; 50 - < 70 %: Ox. Liq. 2, H272; >= 70 %: Skin Corr. 1A, H314; 50 - < 70 %: Skin Corr. 1B, H314; 35 - < 50 %: Skin Irrit. 2, H315; 8 - < 50 %: Eye Dam. 1, H318; 5 - < 8 %: Eye Irrit. 2, H319; >= 35 %: STOT SE 3, H335; | | < 1 % |

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

Section 4. First aid measures

4.1 Description of first aid measures

General informations:

Do not leave affected person unattended. ; Remove affected person from the danger area and lay down.

In case of exposition, call a poison center or a doctor/physician.

In the immediate working surroundings there must be: Emergency shower and eyes rinses

Following inhalation:

In case of respiratory tract irritation, consult a physician. ; Provide fresh air. ;

Following skin contact:

After contact with skin, wash immediately with water and soap ; Remove contaminated clothing ;

Following eye contact:

After contact with the eyes, rinse with water with the eyelids open for 10 to 15 minutes, then consult an ophthalmologist immediately. ;

Following ingestion:

Do NOT induce vomiting. ; Give nothing to eat or drink. ; If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. ;

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: see section 2.2 or 11

No known symptoms to date. ;

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4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Special treatment:

Section 5. Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Use extinguishing agent suitable for type of surrounding fire ;

Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon Dioxide and monoxide

5.3 Advice for fire-fighters

Wear Protective clothing. ;

Additional information:

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Emergency procedures: Provide adequate ventilation. ; Emergency procedures: Remove persons to safety. ; Personal precautions: Use personal protection equipment (see section 8). ;

For emergency responders:

6.2 Environmental precautions

Do not allow to enter into surface water or drains. ; Ensure all waste water is collected and treated via a waste water treatment plant. ;

6.3 Methods and material for containment and cleaning up

For containment:

For cleaning up:

Suitable material for taking up: Absorbing material, organic ;

Store soiled materials in a cool place and in a container closed. Avoid discharge in sewer and evacuate as dangerous waste.

Other information:

6.4 Reference to other sections

Additional information:

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Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures:

Advice on safe handling:

Avoid contact with skin, eyes and clothes. ;

Avoid: Eye contact ; Avoid: Generation/formation of aerosols ;

Avoid: Skin contact ; Avoid: inhalation ;

Keep away from ignition sources. Do not smoke

Avoid build-up of electrostatic charges

Do not eat, drink or smoke in areas where reagents are handled. ; Do not pipet by mouth ;

Wear suitable one-way rubber gloves at work

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ; Observe technical data sheet. ; Remove contaminated, saturated clothing. ; Wash hands before breaks and after work. ;

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed and vertical. ; Keep-store only in original container or in properly labeled containers ;

Further information on storage conditions:

Advised Storage Temperature : 2-8°C

7.3 Specific end uses:

Recommendations on specific end uses:

Observe technical data sheet. ;

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Section 8. Exposure controls/ Personal protection

8.1 Control parameters

Preliminary remark: Mixture contains a substance with occupational exposure limits : Hydrogen Peroxide

8.1.1 Occupational exposure limits:

- France

VME Hydrogen Peroxide = 1 ppm
1.5 mg/m³

8.2 Exposure controls

8.2.1 Mesures techniques :

Handle in accordance with good industrial hygiene and safety practice
Wash hands before breaks and after work.

8.2.2 Personal protective equipment:

Skin protection:

Gloves ; Control gloves before each handling ;
Recommended Gloves :
Matériel: Nitrile Rubber
Minimum Thickness : 0,425 mm
Délai de rupture: 480 min

Laboratory coats

Respiratory protection:

Ensure adequate ventilation ;
Avoid vapors generation

8.2.3 Environmental exposure controls:

Consumer exposure control

Measures related to consumer uses of the substance (as such or in mixtures):

Measures related to the service life of the substance in articles:

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Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|------------------------|-----------|
| Physical state | Liquid |
| Colour | Colorless |
| Odour | NA |
| Odour threshold (ppm) | NA |
| Odour threshold remark | |

NA : not available

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| | | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---|--|-----------------------|--------|------------------|----------------|--------|
| pH | | NA | | | | | |
| Melting point (°C) | | NA | | | | | |
| Freezing point (°C) | | NA | | | | | |
| Initial boiling point/boiling range (°C) | | NA | | | | | |
| Flash point (°C) | | NA | | Closed | | | |
| Evaporation rate (kg/m ² /h) | | NA | | | | | |
| Flammability (type :) (%) | | / | | | | | |
| Upper/lower flammability or explosive limits | Upper explosive limit (%) | / | | | | | |
| | Lower explosive limit (%) | / | | | | | |
| Vapour pressure (kPa) | | NA | | | | | |
| Vapour density (g/cm ³) | | NA | | | | | |
| Densities | Density (g/cm ³) | 1.110 | | | | | |
| | Relative density (g/cm ³) | NA | | | | | |
| | Bulk density (g/cm ³) | NA | | | | | |
| | Critical density (g/cm ³) | NA | | | | | |
| Solubility (Type :) (g/L) | | NA | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | NA | | | | | |
| Auto-ignition temperature (°C) | | / | | | | | |
| Decomposition temperature (°C) | | NA | | | | | |
| Decomposition energy : kJ | | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | NA | | | | | |
| | Viscosity, cinematic (cm ² /s) | NA | | | | | |
| Explosive properties | Thermal Sensitivity (°C) | / | | | | | |
| | Number of fragments : Diameter of the orifice plate / limiting diameter : (mm) | | | | | | |
| | Sensitiveness to impact (m) Impact energy : (kJ) | / | | | | | |
| | Sensitiveness to friction Friction load : (g) | / | | | | | |
| | | | | | | | |
| Oxidising properties | Oxidising Liquids | Mean pressure rise time of test mixture (s) | / | | | | |
| | | Mean pressure rise time of reference mixture (s) | / | | | | |
| | Oxidising Solids | Duration of the reaction in the preliminary test for the reference substance (s) | / | | | | |
| | | Duration of the reaction in the preliminary test for the test substance (s) | / | | | | |
| | | Maximum burning rate (mixture of test substance) | / | | | | |
| | | Maximum burning rate (reference mixture) | / | | | | |
| | Oxidising Gases | Calculated oxidation potential of the mixture (OP) (V) | / | | | | |
| | | Xi molar fraction of the oxidizing component | / | | | | |
| Coefficient of oxygen equivalency (%) | | / | | | | | |

9.2 Other information:

No other relevant data available

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Section 10. Stability and reactivity

10.1 Reactivity

Ignition Risk. Vapors can lead to explosive atmosphere.

10.2 Chemical stability

Material stable under normal use conditions

10.3 Possibility of hazardous reactions

Material stable under normal use conditions

10.4 Conditions to avoid:

Keep away from heat, hot surfaces, all kinds of ignition sources.

10.5 Incompatible materials:

Materials to avoid: Acids, Acid chlorides, Anhydrous acids, Oxidisers, Alkali metals, Reducing agents
Fluorine, metal acetylides

10.6 Hazardous decomposition products:

CO
CO₂

Section 11. Toxicological information

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Mixtures

No toxicological data available

Section 12. Ecological information

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method); in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:

No data available for the mixture

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12.2 Persistence and degradability

Data not available

12.3 Bioaccumulative potential

Data not available

12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

12.6 Other adverse effects:

Can be harmful for aquatic life because of its acid pH. Do not put this product in the water evacuation neither in the environment.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation. ;

Additional information:

Section 14. Transport information

ADR/RID/AND/IMDG/IATA

| | |
|----------------------------|----------------|
| UN No. | Not applicable |
| UN Proper shipping name | Not applicable |
| Transport hazard class(es) | Not applicable |
| Hazard label(s) | Not applicable |
| Packing group | Not applicable |

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Section 15. Regulatory information

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

Not applicable

15.2 Chemical Safety Assessment:

For the following substances of this mixture a chemical safety assessment has been carried out : No

Section 16. Other information

16.1 Indication of changes

Date of the previous version: 05/03/2019
Modifications: Changes in chemical composition

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

16.5 Relevant R-, H- and EUH-phrases (number and full text):

H271 May cause fire or explosion; strong oxidizer.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

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Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification du produit :

Substances

Substance name:

CAS No.:

Index No:

EC No:

REACH No:

Mixtures

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Other means of identification:

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

Relevant identified uses: Use of the substance or mixture for water monitoring

Uses advised against: Do not use for therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:

Supplier :

Name: C4Hydro

Address: 163, avenue de Luminy, 13288 Marseille Cedex 8

E-mail : support@c4hydro.com

1.4 EMERGENCY TELEPHONE NUMBER:

Tel : +33 (0)4 86 94 85 07 - Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2. Hazards identification

2.1 Classification of the substance or mixture:

The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008.

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

2.2 Label elements

None

2.3 Other hazards

None

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The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

Section 3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients :

This product does not contain any hazardous substances at concentrations defined in the regulation.

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

Section 4. First aid measures

4.1 Description of first aid measures

Following skin contact:

After contact with skin, wash immediately with water and soap ; Remove contaminated clothing ;

Following eye contact:

After contact with the eyes, rinse with water with the eyelids open for 10 to 15 minutes, then consult an ophthalmologist immediately. ;

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: see section 2.2 or 11

No known symptoms to date. ;

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Special treatment:

Section 5. Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

This product is not flammable. Use extinguishing agent suitable for type of surrounding fire ;

Unsuitable extinguishing media:

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:/

5.3 Advice for fire-fighters

Wear Protective clothing. ;

Additional information:

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not applicable

6.2 Environmental precautions

Not applicable

6.3 Methods and material for containment and cleaning up

For containment:

For cleaning up:

Suitable material for taking up: Absorbing material, organic ;

Other information:

6.4 Reference to other sections

Additional information:

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures:

Do not pipet by mouth ;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ; Observe technical data sheet.

Wash hands before breaks and after work. ;

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed. ; Keep-store only in original container or in properly labeled containers ;

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Hints on storage assembly:

Materials to avoid: /

Further information on storage conditions:

7.3 Specific end uses:

Recommendations on specific end uses:

Observe technical data sheet. ;

Section 8. Exposure controls/ Personal protection

8.1 Control parameters

Preliminary remark: Mixture does not contain a substance with occupational exposure limits

8.1.1 Occupational exposure limits:

8.2 Exposure controls

8.2.1 Mesures techniques :

/

8.2.2 Personal protective equipment:

/

8.2.3 Environmental exposure controls:

/

Measures related to consumer uses of the substance (as such or in mixtures):

Measures related to the service life of the substance in articles:

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|------------------------|-----------------|
| Physical state | Liquid |
| Colour | Slightly Yellow |
| Odour | NA |
| Odour threshold (ppm) | NA |
| Odour threshold remark | |

NA : not available

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| | | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---|--|-----------------------|--------|------------------|----------------|--------|
| pH | | NA | | | | | |
| Melting point (°C) | | | | | | | |
| Freezing point (°C) | | | | | | | |
| Initial boiling point/boiling range (°C) | | | | | | | |
| Flash point (°C) | | / | | | | | |
| Evaporation rate (kg/m ² /h) | | NA | | | | | |
| Flammability (type :) (%) | | / | | | | | |
| Upper/lower flammability or explosive limits | Upper explosive limit (%) | / | | | | | |
| | Lower explosive limit (%) | / | | | | | |
| Vapour pressure (kPa) | | NA | | | | | |
| Vapour density (g/cm ³) | | NA | | | | | |
| Densities | Density (g/cm ³) | NA | | | | | |
| | Relative density (g/cm ³) | NA | | | | | |
| | Bulk density (g/cm ³) | NA | | | | | |
| | Critical density (g/cm ³) | NA | | | | | |
| Solubility (Type :) (g/L) | | NA | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | NA | | | | | |
| Auto-ignition temperature (°C) | | / | | | | | |
| Decomposition temperature (°C) | | NA | | | | | |
| Decomposition energy : kJ | | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | NA | | | | | |
| | Viscosity, cinematic (cm ² /s) | NA | | | | | |
| Explosive properties | Thermal Sensitivity (°C) | / | | | | | |
| | Number of fragments : Diameter of the orifice plate / limiting diameter : (mm) | | | | | | |
| | Sensitiveness to impact (m) Impact energy : (kJ) | / | | | | | |
| | Sensitiveness to friction Friction load : (g) | / | | | | | |
| | | | | | | | |
| Oxidising properties | Oxidising Liquids | Mean pressure rise time of test mixture (s) | / | | | | |
| | | Mean pressure rise time of reference mixture (s) | / | | | | |
| | Oxidising Solids | Duration of the reaction in the preliminary test for the reference substance (s) | / | | | | |
| | | Duration of the reaction in the preliminary test for the test substance (s) | / | | | | |
| | | Maximum burning rate (mixture of test substance) : | / | | | | |
| | | Maximum burning rate (reference mixture) | / | | | | |
| | Oxidising Gases | Calculated oxidation potential of the mixture (OP) (V) | / | | | | |
| | | Xi molar fraction of the oxidizing component | / | | | | |
| Coefficient of oxygen equivalency (%) | | / | | | | | |

9.2 Other information:

No other relevant data available

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Section 10. Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

Material stable under normal use conditions

10.3 Possibility of hazardous reactions

Material stable under normal use conditions

10.4 Conditions to avoid:

10.5 Incompatible materials:

Materials to avoid: /

10.6 Hazardous decomposition products:

Do not decompose when used for intended uses. ;

Section 11. Toxicological information

Toxicokinetics, metabolism and distribution

Not applicable

Section 12. Ecological information

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method); in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:

Data not available

12.2 Persistence and degradability

Data not available

12.3 Bioaccumulative potential

Data not available

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12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

12.6 Other adverse effects:

/

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste treatment options:

Additional information:

Section 14. Transport information

ADR/RID/AND/IMDG/IATA

| | |
|----------------------------|----------------|
| UN No. | Not applicable |
| UN Proper shipping name | Not applicable |
| Transport hazard class(es) | Not applicable |
| Hazard label(s) | Not applicable |
| Packing group | Not applicable |

Section 15. Regulatory information

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

Not applicable

15.2 Chemical Safety Assessment:

Remark:

For the following substances of this mixture a chemical safety assessment has been carried out : No

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Section 16. Other information

16.1 Indication of changes

Date of the previous version: 08/11/2017

Modifications: Designation

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

16.5 Relevant R-, H- and EUH-phrases (number and full text):

/

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Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification du produit :

Substances

Substance name:

CAS No.:

Index No:

EC No:

REACH No:

Mixtures

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Other means of identification:

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

Relevant identified uses: Use of the substance or mixture for water monitoring;

Uses advised against: Do not use for therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:

Supplier :

Name: C4Hydro

Address: 163, avenue de Luminy, 13288 Marseille Cedex 8

E-mail : support@c4hydro.com

1.4 EMERGENCY TELEPHONE NUMBER:

Tel : +33 (0)4 86 94 85 07 - Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2. Hazards identification

2.1 Classification of the substance or mixture:

| Classification according to Regulation (EC) No 1272/2008 [CLP] | Category code | Hazard statement | Precautionary statement |
|--|---------------|------------------|-------------------------|
| Corrosive to metals Category 1, H290 | Met. Corr. 1 | H290 | P406 |

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2.2 Label elements

Product identifier:

| Substance name | CAS n° | Index n° | EC n° |
|------------------------|-----------|--------------|-----------|
| Hydrochloric acid < 1% | 7647-01-0 | 017-002-01-X | 231-595-7 |

Hazard pictogram

GHS05



Signal word:

Warning

Hazard and precautionary statements:

| Code | Hazard and Precautionary Statement |
|------|--|
| H290 | May be corrosive to metals. |
| P406 | Store in corrosive resistant container with a resistant inner liner. |

2.3 Other hazards

None

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

Section 3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients :

| Substance name | CAS n° | Index n° | EC n° | Classification according Regulation (EC) No. 1272 [CLP] | SCL | M-factor | Concentration |
|-------------------|-----------|--------------|-----------|---|---|----------|---------------|
| Hydrochloric Acid | 7647-01-0 | 017-002-01-X | 231-595-7 | Met. Corr. 1; Skin Corr. 1B; STOT SE 3; H290, H314, H335 | $\geq 25\%$: Skin Corr. 1B, H314; 10 - < 25 %: Skin Irrit. 2, H315; 10 - < 25 %: Eye Irrit. 2, H319; $\geq 10\%$: STOT SE 3, H335; $\geq 0,1\%$: Met. Corr. 1, H290 | | <1% |

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

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Section 4. First aid measures

4.1 Description of first aid measures

General informations:

In the immediate working surroundings there must be: Emergency shower and eyes rinses

Following inhalation:

In case of respiratory tract irritation, consult a physician. ; Provide fresh air. ;

Following skin contact:

After contact with skin, wash immediately with water and soap ; Remove contaminated clothing ;

Following eye contact:

After contact with the eyes, rinse with water with the eyelids open for 10 to 15 minutes, then consult an ophthalmologist immediately. ;

Following ingestion:

Do NOT induce vomiting. ; Give nothing to eat or drink. ; If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. ;

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: see section 2.2 or 11

No known symptoms to date. ;

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Special treatment:

Section 5. Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

This product is not flammable. Use extinguishing agent suitable for type of surrounding fire ;

Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

5.3 Advice for fire-fighters

Wear Protective clothing and if necessary of a breathing apparatus insulating. ;

Additional information:

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Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. ; Remove persons to safety. ;
Personal precautions: Use personal protection equipment (see section 8). ;

6.2 Environmental precautions

Ensure all wastewater is collected and treated via a waste water treatment plant. ;

6.3 Methods and material for containment and cleaning up

For containment:
For cleaning up:
Suitable material for taking up: Absorbing material, organic ;
Other information:

6.4 Reference to other sections

Additional information:

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures:
Advice on safe handling:
Avoid contact with skin, eyes and clothes. ;
Avoid: Eye contact ; Avoid: Generation/formation of aerosols ;
Avoid: Skin contact ; Avoid: inhalation ;

Do not eat, drink or smoke in areas where reagents are handled. ; Do not pipet by mouth ; Wear suitable one-way rubber gloves at work

Advice on general occupational hygiene
Wash hands before breaks and after work. ;

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:
Keep container tightly closed. ; Keep-store only in original container or in properly labeled containers ;

Hints on storage assembly:
Materials to avoid: Metals

Further information on storage conditions:

7.3 Specific end uses:

Recommendations on specific end uses:
Observe technical data sheet. ;

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Section 8. Exposure controls/ Personal protection

8.1 Control parameters

Preliminary remark: Mixture contains a substance with occupational exposure limits : Hydrochloric acid.

8.1.1 Occupational exposure limits:

- France
 - VLCT (VLE) = 5 ppm
7.6 mg/m³
 - STEL = 10 ppm
15 mg/ m³
 - TWA = 5 ppm
8 mg/ m³
- UK
 - STEL = 5 ppm
8 mg/ m³
 - TWA = 1 ppm
2 mg/ m³
- USA
 - STEL = 5 ppm

8.2 Exposure controls

8.2.1 Mesures techniques :

Handle in accordance with good industrial hygiene and safety practice
Wash hands before breaks and after work.

8.2.2 Personal protective equipment:

Skin protection:

Gloves ; Control gloves before each handling ;
Recommended Gloves :
Matériau: Nitrile Rubber
Minimum Thickness : 0,11 mm
Délai de rupture: 480 min

Laboratory coats

Respiratory protection:

Ensure adequate ventilation ;
Avoid vapors generation

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8.2.3 Environmental exposure controls:

Consumer exposure control

Measures related to consumer uses of the substance (as such or in mixtures):

Measures related to the service life of the substance in articles:

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

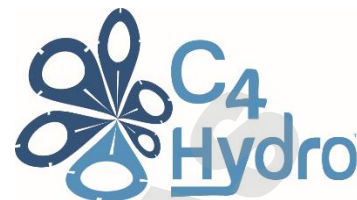
Appearance

| | |
|------------------------|--------------------------|
| Physical state | Liquid |
| Colour | Colorless slightly white |
| Odour | NA |
| Odour threshold (ppm) | NA |
| Odour threshold remark | |

NA : not available

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| | | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---|--|-----------------------|--------|------------------|----------------|--------|
| pH | | 1 | | | | | |
| Melting point (°C) | | | | | | | |
| Freezing point (°C) | | | | | | | |
| Initial boiling point/boiling range (°C) | | | | | | | |
| Flash point (°C) | | / | | | | | |
| Evaporation rate (kg/m ² /h) | | NA | | | | | |
| Flammability (type :) (%) | | / | | | | | |
| Upper/lower flammability or explosive limits | Upper explosive limit (%) | / | | | | | |
| | Lower explosive limit (%) | / | | | | | |
| Vapour pressure (kPa) | | NA | | | | | |
| Vapour density (g/cm ³) | | NA | | | | | |
| Densities | Density (g/cm ³) | NA | | | | | |
| | Relative density (g/cm ³) | NA | | | | | |
| | Bulk density (g/cm ³) | NA | | | | | |
| | Critical density (g/cm ³) | NA | | | | | |
| Solubility (Type :) (g/L) | | NA | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | NA | | | | | |
| Auto-ignition temperature (°C) | | / | | | | | |
| Decomposition temperature (°C) | | NA | | | | | |
| Decomposition energy : kJ | | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | NA | | | | | |
| | Viscosity, cinematic (cm ² /s) | NA | | | | | |
| Explosive properties | Thermal Sensitivity (°C) | / | | | | | |
| | Number of fragments : Diameter of the orifice plate / limiting diameter : (mm) | | | | | | |
| | Sensitiveness to impact (m) Impact energy : (kJ) | / | | | | | |
| | Sensitiveness to friction Friction load : (g) | / | | | | | |
| | | | | | | | |
| Oxidising properties | Oxidising Liquids | Mean pressure rise time of test mixture (s) | / | | | | |
| | | Mean pressure rise time of reference mixture (s) | / | | | | |
| | Oxidising Solids | Duration of the reaction in the preliminary test for the reference substance (s) | / | | | | |
| | | Duration of the reaction in the preliminary test for the test substance (s) | / | | | | |
| | | Maximum burning rate (mixture of test substance) : | / | | | | |
| | | Maximum burning rate (reference mixture) | / | | | | |
| | Oxidising Gases | Calculated oxidation potential of the mixture (OP) (V) | / | | | | |
| | | Xi molar fraction of the oxidizing component | / | | | | |
| | | Coefficient of oxygen equivalency (%) | / | | | | |

9.2 Other information:

No other relevant data available

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Section 10. Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

Material stable under normal use conditions

10.3 Possibility of hazardous reactions

Material stable under normal use conditions

10.4 Conditions to avoid:

10.5 Incompatible materials:

Materials to avoid: Amines, Caustic solutions, Alkalis metals, Metals, , permanganates as potassium permanganate, Fluorine, metal acetylides

10.6 Hazardous decomposition products:

Do not decompose when used for intended uses. ;
Thermal decomposition can lead to the escape of irritating gases and vapors. ;

Section 11. Toxicological information

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

- Acute toxicity

Data not available (Hydrochloric acid)

Inhalation can lead to symptoms as respiratory irritation, coughs, difficulties in breathing, pneumonia (Hydrochloric acid)

- Carcinogenicity

IARC : 3 – Group 3 : not classified as carcinogenic for human (Hydrochloric Acid)

Mixture

No available toxicological data for the mixture

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Section 12. Ecological information

In case of test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method); in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:

No data available for the mixture

Acute (short-term) fish toxicity

CL50 – *Lepomis macrochirus* – 24,6 mg/l – 96 h (Hydrochloric acid)

12.2 Persistence and degradability

Data not available

12.3 Bioaccumulative potential

Data not available

12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

12.6 Other adverse effects:

Can be harmful for aquatic life because of its acid pH. Do not put this product in the water evacuation neither in the environment.

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation. ;

Additional information:

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Section 14. Transport information

ADR/RID/AND/IMDG/IATA

| | |
|----------------------------|----------------|
| UN No. | Not applicable |
| UN Proper shipping name | Not applicable |
| Transport hazard class(es) | Not applicable |
| Hazard label(s) | Not applicable |
| Packing group | Not applicable |

Section 15. Regulatory information

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

EU regulations

- Authorisations and/or restrictions on use:

Authorisations:

Restrictions on use:

SVHC :

- Other EU regulations:
- Directive 2010/75/EC on industrial emissions

Not relevant

- Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

Not relevant

- Directive 2004/42/CE on the limitation of emissions of volatile organic compounds

Not relevant

- Regulation (EC) No. 842/2006 on certain fluorinated greenhouse gases.

Not relevant

- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Not relevant

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National regulations

15.2 Chemical Safety Assessment:

Remark:

For the following substances of this mixture a chemical safety assessment has been carried out : No

Section 16. Other information

16.1 Indication of changes

Date of the previous version: /
Modifications: /

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

16.5 Relevant R-, H- and EUH-phrases (number and full text):

H290 : May be corrosive to metals.
H314 : Causes severe skin burns and eye damage.
H335 : May cause respiratory irritation.

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Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification du produit :

Substances

Substance name:

CAS No.:

Index No:

EC No:

REACH No:

Mixtures

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Other means of identification:

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

Relevant identified uses: Use of the substance or mixture for water monitoring ;

Uses advised against: Do not use for therapeutics or other clinical uses.

1.3 Details of the supplier of the safety data sheet:

Supplier :

Name: C4Hydro

Address: 163, avenue de Luminy, 13288 Marseille Cedex 8

E-mail : support@c4hydro.com

1.4 EMERGENCY TELEPHONE NUMBER:

Tel : +33 (0)4 86 94 85 07 - Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

Section 2. Hazards identification

2.1 Classification of the substance or mixture:

The substance or mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008.

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

2.2 Label elements

None

2.3 Other hazards

None

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) \geq 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

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Section 3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients :

This product does not contain any hazardous substances at concentrations defined in the regulation.

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

Section 4. First aid measures

4.1 Description of first aid measures

Following skin contact:

After contact with skin, wash immediately with water and soap ; Remove contaminated clothing ;

Following eye contact:

After contact with the eyes, rinse with water with the eyelids open for 10 to 15 minutes, then consult an ophthalmologist immediately. ;

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: see section 2.2 or 11

No known symptoms to date. ;

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Special treatment:

Section 5. Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

This product is not flammable. Use extinguishing agent suitable for type of surrounding fire ;

Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:/

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5.3 Advice for fire-fighters

Wear Protective clothing. ;

Additional information:

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not applicable

6.2 Environmental precautions

Not applicable

6.3 Methods and material for containment and cleaning up

For containment:

For cleaning up:

Suitable material for taking up: Absorbing material, organic ;

Other information:

6.4 Reference to other sections

Additional information:

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures:

Do not pipet by mouth ;

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice ; Observe technical data sheet.

Wash hands before breaks and after work. ;

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed. ; Keep-store only in original container or in properly labeled containers ;

Hints on storage assembly:

Materials to avoid: /

Further information on storage conditions:

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7.3 Specific end uses:

Recommendations on specific end uses:

Observe technical data sheet. ;

Section 8. Exposure controls/ Personal protection

8.1 Control parameters

Preliminary remark: Mixture does not contain a substance with occupational exposure limits

8.1.1 Occupational exposure limits:

8.2 Exposure controls

8.2.1 Mesures techniques :

/

8.2.2 Personal protective equipment:

/

8.2.3 Environmental exposure controls:

/

Measures related to consumer uses of the substance (as such or in mixtures):

Measures related to the service life of the substance in articles:

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|------------------------|-------|
| Physical state | Solid |
| Colour | White |
| Odour | NA |
| Odour threshold (ppm) | NA |
| Odour threshold remark | |

NA : not available

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| | | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|---|---|--|-----------------------|--------|------------------|----------------|--------|
| pH | | NA | | | | | |
| Melting point (°C) | | | | | | | |
| Freezing point (°C) | | | | | | | |
| Initial boiling point/boiling range (°C) | | | | | | | |
| Flash point (°C) | | / | | | | | |
| Evaporation rate (kg/m ² /h) | | NA | | | | | |
| Flammability (type :) (%) | | / | | | | | |
| Upper/lower flammability or explosive limits | Upper explosive limit (%) | / | | | | | |
| | Lower explosive limit (%) | / | | | | | |
| Vapour pressure (kPa) | | NA | | | | | |
| Vapour density (g/cm ³) | | NA | | | | | |
| Densities | Density (g/cm ³) | NA | | | | | |
| | Relative density (g/cm ³) | NA | | | | | |
| | Bulk density (g/cm ³) | NA | | | | | |
| | Critical density (g/cm ³) | NA | | | | | |
| Solubility (Type :) (g/L) | | NA | | | | | |
| Partition coefficient (log Pow) n-octanol/water at pH : | | NA | | | | | |
| Auto-ignition temperature (°C) | | / | | | | | |
| Decomposition temperature (°C) | | NA | | | | | |
| Decomposition energy : kJ | | | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | NA | | | | | |
| | Viscosity, cinematic (cm ² /s) | NA | | | | | |
| Explosive properties | Thermal Sensitivity (°C) | / | | | | | |
| | Number of fragments : Diameter of the orifice plate / limiting diameter : (mm) | | | | | | |
| | Sensitiveness to impact (m) Impact energy : (kJ) | / | | | | | |
| | Sensitiveness to friction Friction load : (g) | / | | | | | |
| | | | | | | | |
| Oxidising properties | Oxidising Liquids | Mean pressure rise time of test mixture (s) | / | | | | |
| | | Mean pressure rise time of reference mixture (s) | / | | | | |
| | Oxidising Solids | Duration of the reaction in the preliminary test for the reference substance (s) | / | | | | |
| | | Duration of the reaction in the preliminary test for the test substance (s) | / | | | | |
| | | Maximum burning rate (mixture of test substance) : | / | | | | |
| | | Maximum burning rate (reference mixture) | / | | | | |
| | Oxidising Gases | Calculated oxidation potential of the mixture (OP) (V) | / | | | | |
| Xi molar fraction of the oxidizing component | | / | | | | | |
| Coefficient of oxygen equivalency (%) | | / | | | | | |

9.2 Other information:

No other relevant data available

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Section 10. Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions. ;

10.2 Chemical stability

Material stable under normal use conditions

10.3 Possibility of hazardous reactions

Material stable under normal use conditions

10.4 Conditions to avoid:

10.5 Incompatible materials:

Materials to avoid: /

10.6 Hazardous decomposition products:

Do not decompose when used for intended uses. ;

Section 11. Toxicological information

Toxicokinetics, metabolism and distribution

Not applicable

Section 12. Ecological information

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for mixture classification has to be used (calculation method); in this case the toxicological data of the ingredients are shown.

12.1 Aquatic toxicity:

Data not available

12.2 Persistence and degradability

Data not available

12.3 Bioaccumulative potential

Data not available

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12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

12.6 Other adverse effects:

/

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste treatment options:

Additional information:

Section 14. Transport information

ADR/RID/AND/IMDG/IATA

| | |
|----------------------------|----------------|
| UN No. | Not applicable |
| UN Proper shipping name | Not applicable |
| Transport hazard class(es) | Not applicable |
| Hazard label(s) | Not applicable |
| Packing group | Not applicable |

Section 15. Regulatory information

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

Not applicable

15.2 Chemical Safety Assessment:

Remark:

For the following substances of this mixture a chemical safety assessment has been carried out : No

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Section 16. Other information

16.1 Indication of changes

Date of the previous version: /

Modifications: /

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

16.5 Relevant R-, H- and EUH-phrases (number and full text):

/

DOMINIQUE DUTSCHER SA