SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: CPPH2 DETERGENT DISINFECTANT
Product No.: CPPH2

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

Identified uses: Disinfectant. For professional use only. Disinfectants must be used responsibly in line with manufacturer's instructions.
Uses advised against: Not for direct contact with Food or Beverage stuffs. Not for oral consumption.

1.3. Details of the supplier of the safety data sheet

Supplier: Booker
Equity House, Irthlingborough Road
Wellingborough
Northants. NN8 1LT
01933 371000

Manufacturer: Holchem Laboratories Limited
Gateway House, Pilsworth Road,
Pilsworth Industrial Estate,
Bury, Lancashire (UK)
BL9 8RD
+44 (0) 1706 222288
+44 (0) 1706 221550
info@holchem.co.uk

1.4. Emergency telephone number

Out of Office Hours Emergency Information:- For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice please call:- 0870 190 6777. NOTE: This number will not provide technical details of the product, or deal with other general enquiries regarding application and use of the product.
This product is registered with the NPIS. UK Environment Agency 24hour Advisory Service 0800 807060. Irish Environmental Protection Agency 1890 335599.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture


2.2. Label elements

Detergent Labelling:

< 5% EDTA and salts thereof
- cationic surfactants
- amphoteric surfactants
- non-ionic surfactants
- disinfectants

Labelling:

Irritant

Dangerous for the environment

Risk Phrases:
R36 Irritating to eyes.
R50 Very toxic to aquatic organisms.
Safety Phrases

S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 64-02-8</td>
<td></td>
</tr>
<tr>
<td>EC No.: 200-573-9</td>
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<tr>
<td>Registration Number: 01-2119486762-27</td>
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</tr>
<tr>
<td>Classification (EC 1272/2008)</td>
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<tr>
<td>Acute Tox. 4 - H302</td>
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</tr>
<tr>
<td>Acute Tox. 4 - H332</td>
<td></td>
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<tr>
<td>Eye Irrit. 2 - H319</td>
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<tr>
<td>Classification (67/548/EEC)</td>
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<tr>
<td>Xn;R20,R22.</td>
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<tr>
<td>Xi;R41.</td>
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</table>

<table>
<thead>
<tr>
<th>ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE</th>
<th>1-5%</th>
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<tr>
<td>CAS-No.: 63449-41-2</td>
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<td>EC No.: 284-151-6</td>
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<td>Acute Tox. 4 - H302</td>
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<tr>
<td>Acute Tox. 4 - H312</td>
<td></td>
</tr>
<tr>
<td>Skin Corr. 1B - H314</td>
<td></td>
</tr>
<tr>
<td>Aquatic Acute 1 - H400</td>
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</tr>
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<tr>
<td>Xn;R21/22.</td>
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<tr>
<td>C;R34.</td>
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<tr>
<td>N;R50.</td>
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</table>

<table>
<thead>
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<th>DIDECYL DIMETHYL AMMONIUM CHLORIDE</th>
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<tr>
<td>CAS-No.: 7173-51-5</td>
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<td>EC No.: 230-525-2</td>
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<tr>
<td>Flam. Liq. 3 - H226</td>
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<td>Acute Tox. 4 - H302</td>
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<tr>
<td>Skin Corr. 1B - H314</td>
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<tr>
<td>STOT SE 3 - H335</td>
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<tr>
<td>Xn;R22.</td>
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<tr>
<td>C;R34.</td>
<td></td>
</tr>
<tr>
<td>N;R50.</td>
<td></td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Product name

CPPH2 DETERGENT DISINFECTANT

Composition Comments

To the best of our knowledge, all of the substances used in this product are being supported for the relevant application in REACH. The Biocidally Active components of this product are supported in the Biocidal Products Directive (Regulation).

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

When it is safe to do so, remove victim immediately from source of exposure. However, consideration should be given as to whether moving the victim will cause further injury.

Inhalation

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.

Ingestion

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention.
Skin contact
Remove contaminated clothing that is not adhered to the skin. Flush area with clean water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Eye contact
Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

General information
Neat product may cause irritation to skin and eyes. Dilute chemical may result in mild irritation to skin. Contact of dilute chemical with eyes should still be treated as outlined above.

Inhalation
Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose.

Ingestion
Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, irritation of the mouth, throat and GI tract may occur. If dilute chemical is ingested some soreness of the mouth, throat and GI tract may occur.

Skin contact
Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Use solutions may cause mild irritation especially to open cuts and abrasions.

Eye contact
May cause irritation to the eyes. May result in permanent eye damage.

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

Notes to the physician
Contains a blend of Chelating agents, Surfactants and Cationic Biocides in aqueous solution. Rinse well with water to neutral pH.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards
No unusual fire or explosion hazards noted.

Specific hazards
The product is non-combustible. If heated, irritating vapours may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures
Protective clothing and respiratory protection should be worn when tackling fires involving this product. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Do not allow ANY environmental contamination.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Dike far ahead of larger spills for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

See sections 8, 12 & 13

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear full protective clothing for prolonged exposure and/or high concentrations. Read and follow manufacturer's recommendations.
7.2. Conditions for safe storage, including any incompatibilities

Keep in original container. Store in a cool and well-ventilated place. Keep containers tightly closed. Keep above chemical's freezing (melting) point. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

7.3. Specific end use(s)

Detergent/Disinfectant, refer to use instructions.

Usage Description

This product is suitable for use in food preparation areas, but is not designed for direct food contact.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

Where an exposure level is quoted, a risk assessment should consider if there is a need to monitor the atmosphere of the working environment. Results should be compared against the WEL and/or DNEL information provided.

Where a worker is exposed to levels approaching a limit, further exposure control measures should be considered to reduce exposure to the substance.

DNEL information is supplied by manufacturers of substances in accordance with REACH legislation (Regulation (EC) No 1907/2006), and is used to provide suitable risk reduction measures to limit exposure of the user of the substance to a non hazardous level. If the measured level of exposure by a route divided by the DNEL for the route is greater than 1, then further exposure controls should be implemented as described in section 8.2.

Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT (CAS: 64-64-8)

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Professional Inhalation.</th>
<th>Long Term</th>
<th>Systemic Effects</th>
<th>2.5 mg/m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Inhalation.</td>
<td>Long Term</td>
<td>Systemic Effects</td>
<td>2.5 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Professional Inhalation.</td>
<td>Long Term</td>
<td>Local Effects</td>
<td>2.5 mg/m3</td>
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</tr>
<tr>
<td>Professional Inhalation.</td>
<td>Short Term</td>
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<td></td>
</tr>
<tr>
<td>Professional Inhalation.</td>
<td>Short Term</td>
<td>Local Effects</td>
<td>2.5 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

PNEC

| Freshwater | 2.2 mg/l |
| Marinewater | 0.22 mg/l |
| Intermittent release | 1.2 mg/l |
| Soil       | 0.72 mg/kg |
| STP        | 43 mg/kg |

Professional Inhalation. Long Term Systemic Effects 2.5 mg/m3

Professional Inhalation. Long Term Local Effects 2.5 mg/m3

Professional Inhalation. Short Term Systemic Effects 2.5 mg/m3

Professional Inhalation. Short Term Local Effects 2.5 mg/m3

CITRIC ACID (CAS: 5949-29-1)

| PNEC                          | Freshwater | 0.44 mg/l |
| STP                           | >1000 mg/l |
| Sediment (Freshwater)         | 34.6 mg/kg |
| Sediment (Marinewater)        | 3.46 mg/kg |
| Soil                          | 33.1 mg/kg |

Freshwater 0.44 mg/l

Marinewater 0.044 mg/l

STP >1000 mg/l

Sediment (Freshwater) 34.6 mg/kg

Sediment (Marinewater) 3.46 mg/kg

Soil 33.1 mg/kg

8.2. Exposure controls

Protective equipment

Process conditions

Where possible replace manual processes with automated or closed processes to minimise contact with the product.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Workplace Exposure Limit. In the case of dust or aerosol formation (eg spraying), or vapour from hot vessels, use respiratory protection with an approved filter (P2).

Hand protection

Nitrile Rubber of at least 0.4mm coating thickness with a breakthrough time of >240min.

Refer to Standard EN 374.

Eye protection

Wear approved safety goggles. Refer to EN Standard 166 to select appropriate level of protection.
Other Protection
Provide eyewash station. Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures
Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin.

Environmental Exposure Controls
Do not allow the substance to contaminate surface water/ground water. See points 6, 12 &13.

General Health and Safety Measures.
The above requirements refer to the neat chemical. In-use solutions may have a lower classification, however, a full risk assessment should be carried out before handling any chemical(s). Risk assessments should refer to COSHH and any other relevant legislation or industry specific guidelines governing the use of chemicals.

Alkyl Benzyl Dimethyl Ammonium Chloride has been linked to skin sensitisation by prolonged or repeated exposure. Use of gloves is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
- **Appearance**: Clear liquid.
- **Colour**: Blue.
- **Odour**: Slight odour.
- **Solubility**: Soluble in water.
- **Relative density**: 1.03 @ 20 Degrees C
- **pH-Value, Conc. Solution**: 9 - 10
- **pH-Value, Diluted Solution**: 7 - 8 @ 3%v/v
- **Flash point (°C)**: Not applicable.
- **Partition Coefficient (N-Octanol/Water)**: Technically not feasible.
- **Not technically practical for mixtures.**
- **Oxidising properties**: Not applicable.
- **Contains no Oxidising Components.**

9.2. Other information
- **Particle Size (Micron)**: Not applicable.
- **Explosive Properties**: Not Classified as Explosive
- **Storage Temperature Range**: 0 to + 40 Degrees C

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Not expected to react when correctly stored and used. Mixing with other chemicals may produce unexpected reactions.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use. - See note 10.6.

10.3. Possibility of hazardous reactions
Refer to section 10.1.
Do not mix with Hypochlorite based chemicals, this could result in a dangerous heating of the solution.

10.4. Conditions to avoid
Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials
Materials To Avoid
Do not mix with Hypochlorite based chemicals this could result in a hazardous reaction producing heat, CO2 and O2.

10.6. Hazardous decomposition products
None under normal conditions. - See section 10.5.
11.1. Information on toxicological effects

Respiratory or skin sensitisation:
Respiratory sensitisation
Not determined.

Skin sensitisation
Not determined.
Alkyl Benzyl Dimethyl Ammonium Chloride has been linked to skin sensitisation by prolonged or repeated exposure. Use of gloves is recommended.

Carcinogenicity:
The components of this formulation will not be systemically available in the body under normal conditions of handling. As a consequence it is not expected to cause cancer.

Reproductive Toxicity:
The components of this formulation will not be systemically available in the body under normal conditions of use and handling. As a consequence it is not expected to be toxic to the reproductive system or developing foetus.

Inhalation
Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose. - See section 4.2.

Ingestion
Unlikely route of exposure without deliberate abuse. There may be soreness and redness of mouth and throat. A soapy taste may be reported. May cause irritation/discomfort to mucous membranes.

Skin contact
Under normal conditions of use exposure time will be short and the likelihood of causing skin irritation will be very low. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Use solutions may cause mild irritation especially to open cuts and abrasions.

Eye contact
Irritating to eyes. May cause permanent eye injury.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Neat Product is Dangerous to the Environment if discharged direct to watercourses. Diluted product is not classified as Dangerous to the Environment.

12.1. Toxicity

Normal use of diluted product is unlikely to pose a risk. See note 12.0.
To the best of our current knowledge, the main ecotoxicological effect is due to the Alkyl Benzyl Dimethyl Ammonium Chloride and Didecyl Dimethyl Ammonium Chloride, for which the following data is available :-

Alkyl Benzyl Dimethyl Ammonium Chloride:-
The EC50/48h value for Daphnia is 0.03mg/l.
The EC50/96h value for Selenastrum capricornutum is 0.06mg/l.
The LC50/96h value for Rainbow Trout is 1.7 mg/l.
Behaviour in sewage processing plants - EC20 / 0.5hr = 10mg/l (Activated Sludge).

Didecyl Dimethyl Ammonium Chloride:-
The EC(50)/48hr Value for Daphnia magna is 0.062mg/l.
The LC(50)/96hr for fathead minnow is 0.19mg/l.
Toxicity to bacteria in activated sewage sludge (EC50)/3hr = 11mg/l

12.2. Persistence and degradability

Degradability
The surfactant(s) used in this preparation complies (comply) with the biodegradability criteria as laid down in the European Detergents Regulation No 648/2004 as ammended.

12.3. Bioaccumulative potential

Bioaccumulative potential
Not expected to Bioaccumulate.

Partition coefficient
Technically not feasible.
Not technically practical for mixtures.
CPPH2 DETERGENT DISINFECTANT

12.4. Mobility in soil

Mobility:
The product contains substances, which are water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

General information
When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082

14.2. UN proper shipping name

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE, DIDECYL DIMETHYL AMMONIUM CHLORIDE)

14.3. Transport hazard class(es)

ADR/RID/ADN Class 9
ADR/RID/ADN Class Class 9: Miscellaneous dangerous substances and articles.
ADR Label No. 9
IMDG Class 9
ICAO Class/Division 9
Transport Labels

14.4. Packing group

ADR/RID/ADN Packing group III
IMDG Packing group III
ICAO Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
14.6. Special precautions for user

**EMS**
F-A, S-F

**Emergency Action Code**
•3Z

**Hazard No. (ADR)**
90

**Tunnel Restriction Code**
(E)

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

**SECTION 15: REGULATORY INFORMATION**

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

**EU Legislation**
Dangerous Preparations Directive 1999/45/EC.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms used in the safety data sheet**
NPIS - National Poisons Information Service.
vPvB - Very Persistent, Very bioaccumulative.
PBT - Persistent, Bioaccumulative & Toxic.
REACH - Registration, Evaluation, Authorisation & restriction of Chemicals (Regulation EC 1907/2006).
DNEL - Derived No Effect Limit.
PNEC - Predicted No Effect Concentration.
COSHH - Control of Substances Hazardous to Health.
LC50 - Lethal Concentration 50 - The environmental contamination at which 50% mortality is reached over a fixed time scale.
LD50 - Lethal Dose 50 - The dose at which 50% of the tested group will die. Industry - Refers in section 8 to application of the substance in an industrial process.
Professional - Refers in section 8 to application/use of the preparation/product in a skilled trade premises.

**General information**

This document is a Safety Data Sheet, NOT a CoSHH assessment. It is the customer's responsibility to conduct a full CoSHH assessment, taking into account the information held within this document along with other local factors considered in a risk assessment.

The Risk and Hazard statements listed below are the full text of abbreviations used in this document. They are not the final classification, for this refer to section 2.

**Revision Comments**
Reissue following review of text.

**Revision Date**
4th March 2014

**Risk Phrases In Full**

R34 Causes burns.
R20 Harmful by inhalation.
R22 Harmful if swallowed.
R21/22 Harmful in contact with skin and if swallowed.
R36 Irritating to eyes.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.
Hazard Statements In Full

H319 Causes serious eye irritation.
H314 Causes severe skin burns and eye damage.
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H290 May be corrosive to metals.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.

REACH extended MSDS comments

REACH requires that persons handling chemicals should take the necessary risk management measures, in accordance with assessments from manufacturers and importers of chemical substances. The relevant recommendations must be passed along the supply chain. These assessments are generally reported in Exposure Scenarios. Where Exposure Scenarios have been provided for substances used in this product, the relevant information is incorporated into the safety data sheet.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability of such information for his own particular use.