

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : MIDA LUFRAGERM PLUS RTU  
Product code : 283  
Type of product : Biocidal products (e.g. Disinfectants, pest control)  
Product group : Mixture

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use  
Industrial/Professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Disinfectant  
Detergent

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

Clover Chemicals Ltd  
Clover House Macclesfield Road  
SK23 7DQ Whaley Bridge – Derbyshire  
United Kingdom  
T 01663 733114 - F 01663 733115  
[info@cloverchemicals.com](mailto:info@cloverchemicals.com) - [www.cloverchemicals.com](http://www.cloverchemicals.com)

##### Supplier

Christeyns NV  
Afrikalaan 182  
9000 GENT  
Belgium  
T +32 (0)9/ 223 38 71 - F +32 (0)9/ 233 03 44  
[info@christeyns.be](mailto:info@christeyns.be) - [www.christeyns.com](http://www.christeyns.com)

#### 1.4. Emergency telephone number

| Country        | Official advisory body   | Address                                  | Emergency number   | Comment                              |
|----------------|--|--|--|--------------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                     | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| United Kingdom | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH                   | 0344 892 0111  | Only for healthcare<br>professionals |

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

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

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

CLP Signal word : -  
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P102 - Keep out of reach of children.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

| Component  |   |
|--|---|
| Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name  | Product identifier                         | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|--|-----|---|
| Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides | CAS-no: 68424-85-1<br>Einecs nr: 270-325-2 | 0.8 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1) |

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                |   |
|----------------|---|
| General advice | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| Inhalation     | : Allow affected person to breathe fresh air. Allow the victim to rest.   |
| Skin contact   | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.                 |
| Eye contact    | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.                         |
| Ingestion      | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.  |

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

|                          |  |
|--------------------------|--|
| Acute effects eyes       | : May cause eye irritation.                    |
| Acute effects oral route | : May cause irritation to the digestive tract. |

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

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

|  |   |
|--|---|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. |
|--|---|

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.   |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

|                      |                                   |
|----------------------|-----------------------------------|
| Emergency procedures | : Evacuate unnecessary personnel. |
|----------------------|-----------------------------------|

##### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area.                            |

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

|                         |  |
|-------------------------|--|
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. |
|-------------------------|--|

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

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

Storage conditions

: Store in a cool, well-ventilated place. Keep container closed when not in use.

Packaging materials

: Polyethylene. glass. stainless steel.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

No additional information available

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No additional information available

##### 8.2.2. Personal protection equipment

**Personal protective equipment:**

Avoid all unnecessary exposure.

###### 8.2.2.1. Eye and face protection

No additional information available

###### 8.2.2.2. Skin protection

**Hand protection:**

Wear protective gloves.

###### 8.2.2.3. Respiratory protection

No additional information available

###### 8.2.2.4. Thermal hazards

No additional information available

##### 8.2.3. Environmental exposure controls

**Other information:**

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

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

Physical state

: Liquid

Colour

: Yellow.

Physical state/form

: Liquid.

Odour

: odourless.

Odour threshold

: Not available

Melting point/range

: Not available

Freezing point

: Not available

Boiling point/Boiling range

: Not available

Flammability

: Non flammable.

Explosive limits

: Not available

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|   |                     |
|---|---------------------|
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : Not available     |
| Autoignition temperature                        | : Not available     |
| Decomposition temperature                       | : Not available     |
| pH  | : 7                 |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : Not available     |
| Vapour pressure at 50°C                         | : Not available     |
| Density   | : Not available     |
| Relative density                                | : 1                 |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

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

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

|                |                      |
|----------------|----------------------|
| LD50 oral rat  | 795 mg/kg            |
| ATE CLP (oral) | 795 mg/kg bodyweight |

Skin corrosion/irritation : Not classified  
pH: 7

Additional information : Based on available data, the classification criteria are not met

#### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

|    |       |
|----|-------|
| pH | 6 – 9 |
|----|-------|

Serious eye damage/irritation : Not classified  
pH: 7

Additional information : Based on available data, the classification criteria are not met

#### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

|    |       |
|----|-------|
| pH | 6 – 9 |
|----|-------|

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

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|                        |  |
|------------------------|--|
| Germ cell mutagenicity | : Not classified   |
| Additional information | : Based on available data, the classification criteria are not met |
| Carcinogenicity        | : Not classified   |
| Additional information | : Based on available data, the classification criteria are not met |
| Reproductive toxicity  | : Not classified   |
| Additional information | : Based on available data, the classification criteria are not met |
| STOT-single exposure   | : Not classified   |
| Additional information | : Based on available data, the classification criteria are not met |
| STOT-repeated exposure | : Not classified   |
| Additional information | : Based on available data, the classification criteria are not met |
| Aspiration hazard      | : Not classified   |
| Additional information | : Based on available data, the classification criteria are not met |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Not rapidly degradable

#### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

|                        |            |
|------------------------|------------|
| LC50 - Fish [1]        | 0.85 mg/l  |
| EC50 - Crustacea [1]   | 0.016 mg/l |
| EC50 72h - Algae [1]   | 0.02 mg/l  |
| NOEC chronic crustacea | 0.025 mg/l |

### 12.2. Persistence and degradability

#### MIDA LUFRAGERM PLUS RTU

Persistence and degradability : May cause long-term adverse effects in the environment.

#### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

|                               |                |
|-------------------------------|----------------|
| Persistence and degradability | Biodegradable. |
| Biodegradation                | > 90 %         |

### 12.3. Bioaccumulative potential

#### MIDA LUFRAGERM PLUS RTU

Bioaccumulative potential : Not established.

#### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1)

|   |                     |
|---|---------------------|
| Partition coefficient n-octanol/water (Log Kow) | 2.88                |
| Bioaccumulative potential                       | No bioaccumulation. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Component

|  |   |
|--|---|
| Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides (68424-85-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
|--|---|

### 12.6. Endocrine disrupting properties

No additional information available

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### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Waste / unused products : Avoid release to the environment.

HP Code : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR                                     | IMDG          | IATA          |
|---|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>    |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |
| Not regulated                           | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |
| Not regulated                           | Not regulated | Not regulated |
| No supplementary information available  |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

### Full text of H- and EUH-statements:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1     | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 1   | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1                     |
| H302                | Harmful if swallowed.   |
| H314                | Causes severe skin burns and eye damage.                          |
| H318                | Causes serious eye damage.  |
| H400                | Very toxic to aquatic life.                                       |
| H410                | Very toxic to aquatic life with long lasting effects.             |
| H412                | Harmful to aquatic life with long lasting effects.                |
| Skin Corr. 1B       | Skin corrosion/irritation, Category 1, Sub-Category 1B            |

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|                   |      |                    |
|-------------------|------|--------------------|
| Aquatic Chronic 3 | H412 | Calculation method |
|-------------------|------|--------------------|

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.