



# Handex antibacterial foaming hand wash - Lemon & lime

## Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Issue date: 03/07/2020

Revision date: 04/07/2022

Version: 1.0

### SECTION 1: Identification

#### 1.1. Product identifier

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| Product form    | : Mixture                                               |
| Trade name      | : Handex antibacterial foaming hand wash - Lemon & lime |
| Type of product | : Hand Wash                                             |
| Product code    | : SH1320                                                |
| Product group   | : Trade product                                         |

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

No additional information available

#### 1.3. Supplier's details

##### Manufacturer

Shield Chemicals (Pty) Ltd  
9 London Rd  
Apex  
P.O. Box 1939  
1501 Benoni - South Africa  
T (011) 421 7111  
[info@shieldchem.co.za](mailto:info@shieldchem.co.za)

#### 1.4. Emergency telephone number

Emergency number : (011) 421 7111

### SECTION 2: Hazards identification

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

##### Classification according to the United Nations GHS

|                                                                 |      |
|-----------------------------------------------------------------|------|
| Serious eye damage/eye irritation, Category 1                   | H318 |
| Skin sensitisation, Category 1                                  | H317 |
| Specific target organ toxicity — Repeated exposure, Category 2  | H373 |
| Hazardous to the aquatic environment — Acute Hazard, Category 1 | H400 |
| Full text of H statements : see section 16                      |      |

#### 2.2. Label elements

##### Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



GHS05



GHS07



GHS08



GHS09

Signal word (GHS-ZA) : Danger

Hazardous ingredients : Quaternary Ammonium Compound; 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts; Dodecyldimethylamine oxide

Hazard statements (GHS-ZA) : H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H400 - Very toxic to aquatic life.

Precautionary statements (GHS-ZA) : P260 - Do not breathe vapours.  
P261 - Avoid breathing vapours.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a doctor.  
P314 - Get medical advice if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.

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P501 - Dispose of contents and container to an approved waste disposal plant.

### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects : May cause damage to organs through prolonged or repeated exposure, May cause an allergic skin reaction, Causes serious eye damage, Very toxic to aquatic life.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                                                                                                         | Product identifier    | %         | Classification according to the United Nations GHS                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------|----------------------------------------------------------------------------------------------------|
| Dodecyldimethylamine oxide                                                                                                                   | (CAS-No.) 1643-20-5   | 1.0 - 5.0 | Acute Tox. 5 (Dermal), H313<br>STOT RE 2, H373<br>Aquatic Acute 2, H401<br>Aquatic Chronic 3, H412 |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | (CAS-No.) 147170-44-3 | 1.0 - 5.0 | Eye Dam. 1, H318<br>Aquatic Acute 2, H401<br>Aquatic Chronic 3, H412                               |
| Quaternary Ammonium Compound                                                                                                                 |                       | 0.1 - 0.5 | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400 (M=10)                                          |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.  
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

No additional information available

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

No additional information available

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe vapours. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe vapours. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Storage conditions : Store in a well-ventilated place. Keep cool.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures, such as personal protective equipment (PPE)

- Hand protection : Protective gloves
- Eye protection : Safety glasses
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.4. Exposure limit values for the other components

No additional information available

### SECTION 9: Physical and chemical properties

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

- Physical state : Liquid
- Appearance : Liquid.
- Colour : Green.
- Odour : Lemon and lime.
- Odour threshold : No data available
- pH : 5.5 - 6.5
- pH solution : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Relative evaporation rate (ether=1) : No data available
- Melting point : Not applicable
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : Not applicable
- Vapour pressure : No data available
- Vapour pressure at 50 °C : No data available
- Relative vapour density at 20 °C : No data available
- Relative density : No data available
- Relative density of saturated gas/air mixture : No data available
- Density : No data available
- Relative gas density : No data available
- Solubility : No data available
- Log Pow : No data available
- Log Kow : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available
- Explosive properties : No data available
- Oxidising properties : No data available

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|                             |                     |
|-----------------------------|---------------------|
| Explosive limits            | : No data available |
| Lower explosive limit (LEL) | : No data available |
| Upper explosive limit (UEL) | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

| Quaternary Ammonium Compound            |                                                                                                                                                |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                           | 795 mg/kg                                                                                                                                      |
| Dodecyltrimethylamine oxide (1643-20-5) |                                                                                                                                                |
| LD50 dermal rat                         | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |

|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified<br>pH: 5.5 - 6.5                                    |
| Serious eye damage/irritation     | : Causes serious eye damage.<br>pH: 5.5 - 6.5                        |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.                               |
| Germ cell mutagenicity            | : Not classified                                                     |
| Carcinogenicity                   | : Not classified                                                     |
| Reproductive toxicity             | : Not classified                                                     |
| STOT-single exposure              | : Not classified                                                     |
| STOT-repeated exposure            | : May cause damage to organs through prolonged or repeated exposure. |

| Dodecyltrimethylamine oxide (1643-20-5) |                                                                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days)              | 40 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:OPPTS 870.3650 |

|                   |                  |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                               |
|-----------------------------------------------------------|-------------------------------|
| Ecology - general                                         | : Very toxic to aquatic life. |
| Hazardous to the aquatic environment, short-term (acute)  | : Very toxic to aquatic life. |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified              |

| Quaternary Ammonium Compound |           |
|------------------------------|-----------|
| LC50 fish 1                  | 0.85 mg/l |

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|                                                                                                                                                                   |                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Quaternary Ammonium Compound</b>                                                                                                                               |                                                                                    |
| EC50 Daphnia 1                                                                                                                                                    | 0.016 mg/l                                                                         |
| EC50 72h algae (1)                                                                                                                                                | 0.025 mg/l                                                                         |
| <b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts (147170-44-3)</b> |                                                                                    |
| LC50 fish 1                                                                                                                                                       | 1.11 mg/l Test organisms (species): Pimephales promelas                            |
| <b>Dodecylidimethylamine oxide (1643-20-5)</b>                                                                                                                    |                                                                                    |
| LC50 fish 1                                                                                                                                                       | 134 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)  |
| LC50 fish 2                                                                                                                                                       | 31.8 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 Daphnia 1                                                                                                                                                    | 3.9 mg/l Test organisms (species): Daphnia magna                                   |
| NOEC (chronic)                                                                                                                                                    | 0.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                  |
| NOEC chronic fish                                                                                                                                                 | 0.42 mg/l Test organisms (species): Pimephales promelas Duration: '302 d'          |
| <b>12.2. Persistence and degradability</b>                                                                                                                        |                                                                                    |
| <b>Handex antibacterial foaming hand wash - Lemon &amp; lime</b>                                                                                                  |                                                                                    |
| Persistence and degradability                                                                                                                                     | No additional information available                                                |
| <b>12.3. Bioaccumulative potential</b>                                                                                                                            |                                                                                    |
| <b>Handex antibacterial foaming hand wash - Lemon &amp; lime</b>                                                                                                  |                                                                                    |
| Bioaccumulative potential                                                                                                                                         | No additional information available                                                |
| <b>12.4. Mobility in soil</b>                                                                                                                                     |                                                                                    |
| <b>Handex antibacterial foaming hand wash - Lemon &amp; lime</b>                                                                                                  |                                                                                    |
| Mobility in soil                                                                                                                                                  | No additional information available                                                |
| <b>12.5. Other adverse effects</b>                                                                                                                                |                                                                                    |
| Ozone                                                                                                                                                             | : Not classified                                                                   |
| Other adverse effects                                                                                                                                             | : No additional information available                                              |

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

| SANS                                                                               | IMDG                                    | IATA                                                                                                    |
|------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>14.1. UN number</b>                                                             |                                         |                                                                                                         |
| Not regulated for transport                                                        |                                         |                                                                                                         |
| <b>14.2. Proper Shipping Name</b>                                                  |                                         |                                                                                                         |
| Not applicable                                                                     | Not applicable                          | Not applicable                                                                                          |
| <b>14.3. Transport hazard class(es)</b>                                            |                                         |                                                                                                         |
| Not applicable                                                                     | Not applicable                          | Not applicable                                                                                          |
|  | Not applicable                          | <br>Not applicable |
| <b>14.4. Packing group</b>                                                         |                                         |                                                                                                         |
| Not applicable                                                                     | Not applicable                          | Not applicable                                                                                          |
| <b>14.5. Environmental hazards</b>                                                 |                                         |                                                                                                         |
| Dangerous for the environment : Yes                                                | Dangerous for the environment : No<br>: | Dangerous for the environment : No                                                                      |
| No supplementary information available                                             |                                         |                                                                                                         |

### 14.6. Special precautions for user

#### - SANS

No data available

#### - IMDG

No data available

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### - IATA

No data available

### 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 national regulations specific for the product

No additional information available

## SECTION 16: Other information

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Full text of H-statements:

|      |                                                                    |
|------|--------------------------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                                |
| H226 | Flammable liquid and vapour.                                       |
| H227 | Combustible liquid                                                 |
| H301 | Toxic if swallowed.                                                |
| H302 | Harmful if swallowed.                                              |
| H303 | May be harmful if swallowed                                        |
| H305 | May be harmful if swallowed and enters airways                     |
| H311 | Toxic in contact with skin.                                        |
| H313 | May be harmful in contact with skin                                |
| H314 | Causes severe skin burns and eye damage.                           |
| H315 | Causes skin irritation.                                            |
| H317 | May cause an allergic skin reaction.                               |
| H318 | Causes serious eye damage.                                         |
| H319 | Causes serious eye irritation.                                     |
| H330 | Fatal if inhaled.                                                  |
| H336 | May cause drowsiness or dizziness.                                 |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.                                        |
| H401 | Toxic to aquatic life                                              |
| H402 | Harmful to aquatic life                                            |
| H410 | Very toxic to aquatic life with long lasting effects.              |
| H411 | Toxic to aquatic life with long lasting effects.                   |
| H412 | Harmful to aquatic life with long lasting effects.                 |

SDS South Africa

*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.*