

# FORTRESS – Lemon Channel Cubes non pDCB

## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 010/02/2017 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : **FORTRESS – Lemon Channel Cubes non pDCB**  
Product code : B4220  
Type of product : Detergent  
Product group : Trade product

#### 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/Professional use spec : For professional use only  
Use of the substance/mixture : Toilet Blocks  
Function or use category : Toilet Blocks

##### 1.2.2. Uses advised against

No additional information available

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

FOREMOST,  
Unit 3 Dickinson Place,  
South Bersted Business Park,  
Bognor Regis,  
PO22 9QU.  
Tel: 01243 771340  
Email: [safety@foremost-uk.com](mailto:safety@foremost-uk.com) Web: [www.foremost-uk.com](http://www.foremost-uk.com)

#### 1.4. Emergency telephone number

Emergency number : 0044 (0) 1243 771 340 (office hours only)

| Country        | Organisation/Company   | Address                           | Emergency number  | Comment |
|----------------|--|-----------------------------------|---|---------|
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital, Guy's & St Thomas' Hospital Trust | Dudley Road<br>B18 7QH Birmingham | 0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours) |         |

### SECTION 2: Hazards identification

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

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

Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 1 H318  
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H statements : see section 16

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

Causes skin irritation. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger  
Hazardous ingredients : Benzenesulphonic acid mono c10 - 13 alkyl derivs sodium salts  
Hazard statements (CLP) : H315 - Causes skin irritation

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|   |  |
|---|--|
| Precautionary statements (CLP)              | H318 - Causes serious eye damage<br>H412 - Harmful to aquatic life with long lasting effects<br>: P264 - Wash hands, forearms and face thoroughly after handling<br>P273 - Avoid release to the environment<br>P280 - Wear protective gloves, protective clothing, eye protection, face protection<br>P302+P352 - If on skin: Wash with plenty of water<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing<br>P310 - Immediately call a POISON CENTER, a doctor<br>P321 - Specific treatment (see supplemental first aid instruction on this label)<br>P362+P364 - Take off contaminated clothing and wash it before reuse<br>P332+P313 - If skin irritation occurs: Get medical advice/attention<br>P501 - Dispose of contents/container to an approved waste disposal plant |
| Detergent Regulation: Labelling of contents | See section 15.1.1.  |

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name  | Product identifier  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                 |
|---|---|---------|---|
| BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERIVS SODIUM SALTS | (CAS No) 68411-30-3<br>(EC no) 270-115-0<br>(REACH-no) 01-2119489428-22                             | 10 - 30 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |
| sodium carbonate  | (CAS No) 497-19-8<br>(EC no) 207-838-8<br>(EC index no) 011-005-00-2<br>(REACH-no) 01-2119485498-19 | 1 - 3   | Eye Irrit. 2, H319  |

#### Specific concentration limits:

| Name  | Product identifier  | Specific concentration limits       |
|---|---|-------------------------------------|
| BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERIVS SODIUM SALTS | (CAS No) 68411-30-3<br>(EC no) 270-115-0<br>(REACH-no) 01-2119489428-22 | (C >= 65) Acute Tox. 4 (Oral), H302 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| 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 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. |

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

|                                      |                           |
|--------------------------------------|---------------------------|
| Symptoms/injuries after skin contact | : Irritation.             |
| Symptoms/injuries 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.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 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.

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### SECTION 6: Accidental release measures

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

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

Emergency procedures : Ventilate spillage area. 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

Methods for cleaning up : Recover mechanically the product.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : 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.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### 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

##### Environmental exposure controls:

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

Physical state : Solid

Appearance : Yellow solid.

Colour : Yellow.

Odour : lemon odour.

Odour threshold : No data available

pH : No data available

pH solution : 8 (≥ 1) %

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|   |                                    |
|---|------------------------------------|
| Relative evaporation rate (butyl acetate=1) | : No data available                |
| Melting point                               | : No data available                |
| Freezing point                              | : Not applicable                   |
| Boiling point                               | : No data available                |
| Flash point                                 | : Not applicable                   |
| Auto-ignition temperature                   | : Not applicable                   |
| Decomposition temperature                   | : No data available                |
| Flammability (solid, gas)                   | : Non flammable                    |
| Vapour pressure                             | : No data available                |
| Relative vapour density at 20 °C            | : No data available                |
| Relative density                            | : Not applicable                   |
| Solubility                                  | : Soluble in water.                |
| Log Pow                                     | : No data available                |
| Viscosity, kinematic                        | : Not applicable                   |
| Viscosity, dynamic                          | : No data available                |
| Explosive properties                        | : Product is not explosive.        |
| Oxidising properties                        | : Oxidising solids Not applicable. |
| Explosive limits                            | : Not applicable                   |

### 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

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| <b>BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERIVS SODIUM SALTS (68411-30-3)</b> |                         |
|---|-------------------------|
| LD50 oral   | 1080 mg/kg bodyweight   |
| LD50 dermal   | > 2000 mg/kg bodyweight |
| <b>sodium carbonate (497-19-8)</b>  |                         |
| LD50 oral   | 4090 mg/kg bodyweight   |
| LD50 dermal   | > 2000 mg/kg bodyweight |
| LC50 inhalation rat (Dust/Mist - mg/l/4h)   | 2300 mg/m <sup>3</sup>  |

|  |                              |
|--|------------------------------|
| Skin corrosion/irritation                          | : Causes skin irritation.    |
| Serious eye damage/irritation                      | : Causes serious eye damage. |
| Respiratory or skin sensitisation                  | : Not classified             |
| Germ cell mutagenicity                             | : Not classified             |
| Carcinogenicity                                    | : Not classified             |
| Reproductive toxicity                              | : Not classified             |
| Specific target organ toxicity (single exposure)   | : Not classified             |
| Specific target organ toxicity (repeated exposure) | : Not classified             |
| Aspiration hazard                                  | : Not classified             |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

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

#### BENZENESULPHONIC ACID MONO C10 - 13 ALKYL DERIVS SODIUM SALTS (68411-30-3)

|                                |                                   |
|--------------------------------|-----------------------------------|
| LC50 fish 1                    | 1.67 mg/l                         |
| EC50 other aquatic organisms 1 | 2.9 mg/l EC50 waterflea (48 h)    |
| EC50 other aquatic organisms 2 | 127.9 mg/l IC50 algae (72 h) mg/l |
| EC50 72h algae (1)             | 29 mg/l                           |

#### sodium carbonate (497-19-8)

|                                |                        |
|--------------------------------|------------------------|
| LC50 fish 1                    | 300 mg/l               |
| EC50 other aquatic organisms 1 | 265 mg/l               |
| EC50 other aquatic organisms 2 | IC50 algae (72 h) mg/l |

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

#### sodium carbonate (497-19-8)

|         |       |
|---------|-------|
| Log Pow | -6.19 |
|---------|-------|

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

No additional information available

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No. (IATA) : Not applicable  
UN-No. (ADN) : Not applicable  
UN-No. (RID) : Not applicable

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : Not applicable

##### IMDG

Transport hazard class(es) (IMDG) : Not applicable

##### IATA

Transport hazard class(es) (IATA) : Not applicable

##### ADN

Transport hazard class(es) (ADN) : Not applicable

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### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Allergenic fragrances > 0,01%:

|                    |
|--------------------|
| LIMONENE<br>CITRAL |
|--------------------|

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Detergent Regulation : Labelling of contents:

| Component           | %      |
|---------------------|--------|
| anionic surfactants | 15-30% |

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|          |  |
|----------|--|
| perfumes |  |
| LIMONENE |  |
| CITRAL   |  |

### 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

Abbreviations and acronyms:

|       |   |
|-------|---|
| ADN   | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |
| ADR   | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| ATE   | Acute Toxicity Estimate   |
| CLP   | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| EC50  | Median effective concentration  |
| IATA  | International Air Transport Association   |
| IMDG  | International Maritime Dangerous Goods  |
| LC50  | Median lethal concentration   |
| LD50  | Median lethal dose  |
| PBT   | Persistent Bioaccumulative Toxic  |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rai                       |
| SDS   | Safety Data Sheet   |
| vPvB  | Very Persistent and Very Bioaccumulative  |

Full text of H- and EUH-statements:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                                 |
| Aquatic Chronic 3   | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                     |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2                             |
| H302                | Harmful if swallowed  |
| H315                | Causes skin irritation  |
| H318                | Causes serious eye damage   |
| H319                | Causes serious eye irritation                                     |
| H412                | Harmful to aquatic life with long lasting effects                 |

SDS EU (REACH Annex II)

*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*