



# smartwipes Wet

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 9/7/2021 Revision date: 9/7/2021 Supersedes version of: 1/13/2021 Version: 5.00

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

#### 1.1. Product identifier

|                |                                      |
|----------------|--------------------------------------|
| Trade name     | : smartwipes Wet                     |
| Article number | : REF 125220 smartwipes Wet neutral  |
|                | REF 203458 smartwipes Wet lemon      |
|                | REF 203459 smartwipes Wet ocean      |
|                | REF 203460 smartwipes Wet tropic     |
|                | REF 203461 smartwipes Wet bubble gum |

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

##### 1.2.1. Relevant identified uses

|                              |                  |
|------------------------------|------------------|
| Use of the substance/mixture | : Medical device |
|                              | Germicide        |
|                              | Cleaning agent   |

##### 1.2.2. Uses advised against

No additional information available

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

##### Supplier

Alfred Becht GmbH  
Carl-Zeiss-Str. 16  
P.O. Box 1145  
77656 Offenburg  
T +49 781 60586-0 - F +49 781 60586-40

##### Email competent person

sds@kft.de

#### 1.4. Emergency telephone number

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| Emergency number | : Poisoning Information Centre Freiburg<br>+ 49 761 19240 |
|------------------|-----------------------------------------------------------|

### SECTION 2: Hazards identification

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

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

|                                                    |      |
|----------------------------------------------------|------|
| Flammable liquids, Category 2                      | H225 |
| Serious eye damage/eye irritation, Category 1      | H318 |
| Full text of H- and EUH-statements: see section 16 |      |

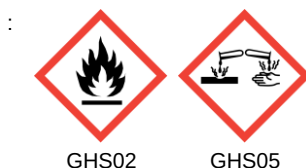
##### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes serious eye damage.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS05

|                         |                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|
| Signal word (CLP)       | : Danger                                                                          |
| Contains                | : n-propanol                                                                      |
| Hazard statements (CLP) | : H225 - Highly flammable liquid and vapour.<br>H318 - Causes serious eye damage. |

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Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames. No smoking.  
P280 - Wear eye protection.  
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 POISON CENTER, a doctor.

### 2.3. Other hazards

PBT: not relevant – no registration required  
vPvB: not relevant – no registration required

| Component                                    |                                                                                                                                                                                 |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ethanol (64-17-5)                            | 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 |
| n-propanol (71-23-8)                         | 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 |
| butanone (78-93-3)                           | 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 |
| didecyldimethylammonium chloride (7173-51-5) | 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 |

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : Cleaning agent

| Name                                                                                                                      | Product identifier                                                    | %            | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                        |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ethanol<br>substance with national workplace exposure limit(s) (DE)                                                       | CAS-No.: 64-17-5<br>EC-No.: 200-578-6<br>EC Index-No.: 603-002-00-5   | ≥ 25 – < 50  | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319                                                                                               |
| n-propanol                                                                                                                | CAS-No.: 71-23-8<br>EC-No.: 200-746-9<br>EC Index-No.: 603-003-00-0   | ≥ 5 – < 10   | Flam. Liq. 2, H225<br>Eye Dam. 1, H318<br>STOT SE 3, H336                                                                              |
| butanone<br>substance with national workplace exposure limit(s) (DE); substance with a Community workplace exposure limit | CAS-No.: 78-93-3<br>EC-No.: 201-159-0<br>EC Index-No.: 606-002-00-3   | ≥ 0.25 – < 1 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                                                                            |
| didecyldimethylammonium chloride                                                                                          | CAS-No.: 7173-51-5<br>EC-No.: 230-525-2<br>EC Index-No.: 612-131-00-6 | < 0.1        | Acute Tox. 3 (Oral), H301 (ATE=264 mg/kg bodyweight)<br>Skin Corr. 1B, H314<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 2, H411 |

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### Specific concentration limits:

| Name    | Product identifier                                                  | Specific concentration limits     |
|---------|---------------------------------------------------------------------|-----------------------------------|
| ethanol | CAS-No.: 64-17-5<br>EC-No.: 200-578-6<br>EC Index-No.: 603-002-00-5 | ( 50 ≤C < 100) Eye Irrit. 2, H319 |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : When in doubt or if symptoms are observed, get medical advice.                                                                                     |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                                                                     |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing.                                                                      |
| 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 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   | : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Strong water jet.                                                                                        |

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

|                                                  |                                                                                    |
|--------------------------------------------------|------------------------------------------------------------------------------------|
| Fire hazard                                      | : Highly flammable liquid and vapour.                                              |
| Explosion hazard                                 | : Explosive vapour/air mixtures may be formed.                                     |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                                                               |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Protect container with water spray.                                                                                                                                                         |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.                                                      |
| Other information              | : Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray. Disposal must be done according to official regulations. |

## SECTION 6: Accidental release measures

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

|                  |                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate air ventilation. Do not breathe gas/vapour/aerosol. |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. |
|----------------------|---------------------------------------------------------------------------------------------------------|

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### 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. Prevent entry to sewers and public waters. Avoid sub-soil penetration.

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

Methods for cleaning up : Cover spill with non combustible material, e.g.: sand/earth. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Other information : Dispose of materials or solid residues at an authorized site. Disposal must be done according to official regulations.

### 6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : In use, may form flammable vapour-air mixture.

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use only non-sparking tools. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures : Immediately remove contaminated or damp clothing. 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

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Protect against frost. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from heat and direct sunlight.

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs. Store away from Acids, oxidizing materials.

### 7.3. Specific end use(s)

Follow the directions!.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

| butanone (78-93-3)                                 |                       |
|----------------------------------------------------|-----------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) |                       |
| Local name                                         | Butanone              |
| IOEL TWA                                           | 600 mg/m <sup>3</sup> |
| IOEL TWA [ppm]                                     | 200 ppm               |
| IOEL STEL                                          | 900 mg/m <sup>3</sup> |
| IOEL STEL [ppm]                                    | 300 ppm               |

| butanone (78-93-3)                                |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulatory reference                              | COMMISSION DIRECTIVE 2000/39/EC                                                                                                                                                                                                                                                                                                                                                                                 |
| Germany - Occupational Exposure Limits (TRGS 900) |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Local name                                        | Butanon                                                                                                                                                                                                                                                                                                                                                                                                         |
| AGW (OEL TWA) [1]                                 | 600 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                           |
| AGW (OEL TWA) [2]                                 | 200 ppm                                                                                                                                                                                                                                                                                                                                                                                                         |
| Peak exposure limitation factor                   | 1(I)                                                                                                                                                                                                                                                                                                                                                                                                            |
| Remark                                            | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); H - hautresorptiv; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Regulatory reference                              | TRGS900                                                                                                                                                                                                                                                                                                                                                                                                         |
| Germany - Biological limit values (TRGS 903)      |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Local name                                        | 2-Butanon (Methylethylketon)                                                                                                                                                                                                                                                                                                                                                                                    |
| Biological limit value                            | 2 mg/l                                                                                                                                                                                                                                                                                                                                                                                                          |
| Remark                                            | U, b, 05/2015, DFG                                                                                                                                                                                                                                                                                                                                                                                              |
| Regulatory reference                              | TRGS 903                                                                                                                                                                                                                                                                                                                                                                                                        |
| ethanol (64-17-5)                                 |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Germany - Occupational Exposure Limits (TRGS 900) |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Local name                                        | Ethanol                                                                                                                                                                                                                                                                                                                                                                                                         |
| AGW (OEL TWA) [1]                                 | 380 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                           |
| AGW (OEL TWA) [2]                                 | 200 ppm                                                                                                                                                                                                                                                                                                                                                                                                         |
| Peak exposure limitation factor                   | 2(II)                                                                                                                                                                                                                                                                                                                                                                                                           |
| Remark                                            | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden                                                                                                                                                      |
| Regulatory reference                              | TRGS900                                                                                                                                                                                                                                                                                                                                                                                                         |

### 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

| n-propanol (71-23-8)                     |                          |
|------------------------------------------|--------------------------|
| DNEL/DMEL (Workers)                      |                          |
| Acute - systemic effects, inhalation     | 1723 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal     | 136 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 268 mg/m <sup>3</sup>    |
| DNEL/DMEL (General population)           |                          |
| Acute - systemic effects, inhalation     | 1036 mg/m <sup>3</sup>   |
| Long-term - systemic effects, oral       | 61 mg/kg bodyweight/day  |

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|                                          |                           |
|------------------------------------------|---------------------------|
| <b>n-propanol (71-23-8)</b>              |                           |
| Long-term - systemic effects, inhalation | 80 mg/m <sup>3</sup>      |
| Long-term - systemic effects, dermal     | 81 mg/kg bodyweight/day   |
| <b>PNEC (Water)</b>                      |                           |
| PNEC aqua (freshwater)                   | 6.83 mg/l                 |
| PNEC aqua (marine water)                 | 0.683 mg/l                |
| <b>PNEC (Sediment)</b>                   |                           |
| PNEC sediment (freshwater)               | 27.5 mg/kg dwt            |
| PNEC sediment (marine water)             | 2.75 mg/kg dwt            |
| <b>PNEC (Soil)</b>                       |                           |
| PNEC soil                                | 1.49 mg/kg dwt            |
| <b>PNEC (STP)</b>                        |                           |
| PNEC sewage treatment plant              | 96 mg/l                   |
| <b>butanone (78-93-3)</b>                |                           |
| <b>DNEL/DMEL (Workers)</b>               |                           |
| Long-term - systemic effects, dermal     | 1161 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 600 mg/m <sup>3</sup>     |
| <b>DNEL/DMEL (General population)</b>    |                           |
| Long-term - systemic effects, oral       | 31 mg/kg bodyweight/day   |
| Long-term - systemic effects, inhalation | 106 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal     | 412 mg/kg bodyweight/day  |
| <b>PNEC (Water)</b>                      |                           |
| PNEC aqua (freshwater)                   | 55.8 mg/l                 |
| PNEC aqua (marine water)                 | 55.8 mg/l                 |
| PNEC aqua (intermittent, freshwater)     | 55.8 mg/l                 |
| <b>PNEC (Sediment)</b>                   |                           |
| PNEC sediment (freshwater)               | 284.74 mg/kg dwt          |
| PNEC sediment (marine water)             | 284.7 mg/kg dwt           |
| <b>PNEC (Soil)</b>                       |                           |
| PNEC soil                                | 22.5 mg/kg dwt            |
| <b>PNEC (Oral)</b>                       |                           |
| PNEC oral (secondary poisoning)          | 1000 kg/kg food           |
| <b>PNEC (STP)</b>                        |                           |
| PNEC sewage treatment plant              | 709 mg/l                  |
| <b>ethanol (64-17-5)</b>                 |                           |
| <b>DNEL/DMEL (Workers)</b>               |                           |
| Long-term - systemic effects, dermal     | 343 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation | 950 mg/m <sup>3</sup>     |

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| ethanol (64-17-5)                            |                          |
|----------------------------------------------|--------------------------|
| DNEL/DMEL (General population)               |                          |
| Long-term - systemic effects, oral           | 87 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation     | 114 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal         | 206 mg/kg bodyweight/day |
| PNEC (Water)                                 |                          |
| PNEC aqua (freshwater)                       | 0.96 mg/l                |
| PNEC aqua (marine water)                     | 0.79 mg/l                |
| PNEC aqua (intermittent, freshwater)         | 2.75 mg/l                |
| PNEC (Sediment)                              |                          |
| PNEC sediment (freshwater)                   | 3.6 mg/kg dwt            |
| PNEC sediment (marine water)                 | 2.9 mg/kg dwt            |
| PNEC (Soil)                                  |                          |
| PNEC soil                                    | 0.63 mg/kg dwt           |
| PNEC (Oral)                                  |                          |
| PNEC oral (secondary poisoning)              | 0.38 kg/kg food          |
| PNEC (STP)                                   |                          |
| PNEC sewage treatment plant                  | 580 mg/l                 |
| didecyldimethylammonium chloride (7173-51-5) |                          |
| PNEC (Water)                                 |                          |
| PNEC aqua (freshwater)                       | 0.0011 mg/l              |
| PNEC aqua (marine water)                     | 0.00011 mg/l             |
| PNEC aqua (intermittent, freshwater)         | 0.00021 mg/l             |
| PNEC aqua (intermittent, marine water)       | 0.000021 mg/l            |
| PNEC (Sediment)                              |                          |
| PNEC sediment (freshwater)                   | 61.86 mg/kg dwt          |
| PNEC sediment (marine water)                 | 6.186 mg/kg dwt          |
| PNEC (Soil)                                  |                          |
| PNEC soil                                    | 1.4 mg/kg dwt            |
| PNEC (STP)                                   |                          |
| PNEC sewage treatment plant                  | 0.14 mg/l                |

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

#### Eye protection:

Wear closed safety glasses. EN 166. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

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### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing. EN 13034. EN ISO 13688

#### Hand protection:

In case of repeated or prolonged contact wear gloves. Chemically resistant protective gloves. Butyl rubber. Neoprene. Polyethylene. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. Short term exposure. Breathing apparatus with filter. A-P2. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust. For details on conditions of use and maximum use concentrations, see DGUV Regulation 112-190 - Use of respiratory protective equipment.

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product. Apply emollient cream.

## SECTION 9: Physical and chemical properties

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

|                                                 |                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------|
| Physical state                                  | : Liquid                                                                 |
| Colour                                          | : colourless.                                                            |
| Appearance                                      | : Inert medium impregnated with: Germicide.                              |
| Odour                                           | : alcohol odour.                                                         |
| Odour threshold                                 | : Not available                                                          |
| Melting point                                   | : Not applicable                                                         |
| Freezing point                                  | : Not available                                                          |
| Boiling point                                   | : Not available                                                          |
| Flammability                                    | : Not applicable                                                         |
| Explosive properties                            | : Product is not explosive. Explosive vapour/air mixtures may be formed. |
| Oxidising properties                            | : Non oxidizing.                                                         |
| Explosive limits                                | : Not available                                                          |
| Lower explosive limit (LEL)                     | : Not available                                                          |
| Upper explosive limit (UEL)                     | : Not available                                                          |
| Flash point                                     | : Not available                                                          |
| Auto-ignition temperature                       | : Not available                                                          |
| Decomposition temperature                       | : Not available                                                          |
| pH                                              | : < 10 (Solution)                                                        |
| Viscosity, kinematic                            | : Not available                                                          |
| Solubility                                      | : Water: Miscible (Solution)                                             |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                                          |
| Partition coefficient n-octanol/water (Log Pow) | : Not applicable                                                         |
| Vapour pressure                                 | : Not available                                                          |
| Vapour pressure at 50 °C                        | : Not available                                                          |
| Density                                         | : 0.91 g/cm <sup>3</sup> (Solution)                                      |
| Relative density                                | : Not available                                                          |
| Relative vapour density at 20 °C                | : Not available                                                          |
| Particle size                                   | : Not applicable                                                         |
| Particle size distribution                      | : Not applicable                                                         |
| Particle shape                                  | : Not applicable                                                         |



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|                                |                  |
|--------------------------------|------------------|
| Particle aspect ratio          | : Not applicable |
| Particle aggregation state     | : Not applicable |
| Particle agglomeration state   | : Not applicable |
| Particle specific surface area | : Not applicable |
| Particle dustiness             | : 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

Highly flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Explosive vapour/air mixtures may be formed.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 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 hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

| didecyldimethylammonium chloride (7173-51-5) |                                                  |
|----------------------------------------------|--------------------------------------------------|
| LD50 oral rat                                | 264 mg/kg bodyweight (female; (OECD 401 method)) |
| LD50 dermal rat                              | ≈ 3342 mg/kg bodyweight (EPA)                    |

|                                   |                                                                                                            |
|-----------------------------------|------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)<br>pH: < 10 (Solution) |
| Serious eye damage/irritation     | : Causes serious eye damage.<br>pH: < 10 (Solution)                                                        |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)                        |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)                        |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met)                        |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met)                        |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)                        |

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### n-propanol (71-23-8)

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

### butanone (78-93-3)

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard      | : Not classified (Not relevant)                                                     |

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------|
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met) |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified (Based on available data, the classification criteria are not met) |

### didecyldimethylammonium chloride (7173-51-5)

|                        |                                                                        |
|------------------------|------------------------------------------------------------------------|
| LC50 - Fish [1]        | 0.49 mg/l (96 h; Brachydanio rerio (zebra-fish); (OECD 203 method))    |
| EC50 - Crustacea [1]   | 0.057 mg/l (48 h; Daphnia magna; (OECD 202 method))                    |
| EC50 72h algae         | ≈ 0.062 mg/l (72h; Pseudokirchneriella subcapitata; (OECD 201 method)) |
| ErC50 algae            | 0.062 mg/l (72 h; Pseudokirchnerella subcapitata (OECD 201 method))    |
| NOEC chronic crustacea | 0.021 mg/l (21 d; Daphnia magna; (OECD 211 method))                    |
| NOEC chronic algae     | 0.013 mg/l (OECD 201 method)                                           |

### 12.2. Persistence and degradability

#### smartwipes Wet

|                               |                                  |
|-------------------------------|----------------------------------|
| Persistence and degradability | The product has not been tested. |
|-------------------------------|----------------------------------|

#### n-propanol (71-23-8)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation                | 75 % (20 d)            |

#### butanone (78-93-3)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation                | 98 % (28 d; OECD 301)  |

#### ethanol

|                |             |
|----------------|-------------|
| Biodegradation | 84 % (20 d) |
|----------------|-------------|

### didecyldimethylammonium chloride (7173-51-5)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation                | 69 % (28d)             |

### 12.3. Bioaccumulative potential

#### smartwipes Wet

|                                                 |                |
|-------------------------------------------------|----------------|
| Partition coefficient n-octanol/water (Log Pow) | Not applicable |
|-------------------------------------------------|----------------|

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| smartwipes Wet                                  |                                      |
|-------------------------------------------------|--------------------------------------|
| Bioaccumulative potential                       | The product has not been tested.     |
| n-propanol (71-23-8)                            |                                      |
| Partition coefficient n-octanol/water (Log Pow) | 0.2 (25 °C; pH 7; (OECD 117 method)) |
| butanone (78-93-3)                              |                                      |
| Partition coefficient n-octanol/water (Log Pow) | 0.3 (40 °C; pH 7; (OECD 117 method)) |
| Bioaccumulative potential                       | Bioaccumulation unlikely.            |
| didecyldimethylammonium chloride (7173-51-5)    |                                      |
| Partition coefficient n-octanol/water (Log Pow) | 2.59 (20 °C; (OECD 105 method))      |

### 12.4. Mobility in soil

| smartwipes Wet                                             |                                                             |
|------------------------------------------------------------|-------------------------------------------------------------|
| Ecology - soil                                             | The product has not been tested.                            |
| n-propanol (71-23-8)                                       |                                                             |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.633 (Quantitative structure-activity relationship (QSAR)) |
| ethanol                                                    |                                                             |
| Surface tension                                            | 22.31 mN/m (20 °C)                                          |
| didecyldimethylammonium chloride (7173-51-5)               |                                                             |
| Surface tension                                            | 25.82 mN/m (OECD 115 method)                                |

### 12.5. Results of PBT and vPvB assessment

| smartwipes Wet                                |                                                                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PBT: not relevant – no registration required  |                                                                                                                                                                                 |
| vPvB: not relevant – no registration required |                                                                                                                                                                                 |
| Component                                     |                                                                                                                                                                                 |
| ethanol (64-17-5)                             | 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 |
| n-propanol (71-23-8)                          | 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 |
| butanone (78-93-3)                            | 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 |
| didecyldimethylammonium chloride (7173-51-5)  | 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

### 12.7. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods                    | : European waste catalogue. Disposal must be done according to official regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sewage disposal recommendations            | : Do not allow into drains or water courses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product/Packaging disposal recommendations | : Do not dispose of with domestic waste.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Additional information                     | : Flammable vapours may accumulate in the container.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| European List of Waste (LoW) code          | : 07 01 01* - aqueous washing liquids and mother liquors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| HP Code                                    | : HP3 - "Flammable:"<br>— flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;<br>— flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;<br>— flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;<br>— flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;<br>— water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;<br>— other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.<br>HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. |

### SECTION 14: Transport information

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

| ADR                                                                                      | IMDG                                                                                | IATA                                                                                | ADN                                                                                   | RID                                                                                   |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>14.1. UN number or ID number</b>                                                      |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| UN 3175                                                                                  | UN 3175                                                                             | UN 3175                                                                             | UN 3175                                                                               | UN 3175                                                                               |
| <b>14.2. UN proper shipping name</b>                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1-ol)                       | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-2-ol)                  | Solids containing flammable liquid, n.o.s. (ethanol ; propan-2-ol)                  | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-2-ol)                    | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-2-ol)                    |
| <b>Transport document description</b>                                                    |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-1-ol), 4.1, II, (E) | UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-2-ol), 4.1, II | UN 3175 Solids containing flammable liquid, n.o.s. (ethanol ; propan-2-ol), 4.1, II | UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-2-ol), 4.1, II   | UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ethanol ; propan-2-ol), 4.1, II   |
| <b>14.3. Transport hazard class(es)</b>                                                  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| 4.1                                                                                      | 4.1                                                                                 | 4.1                                                                                 | 4.1                                                                                   | 4.1                                                                                   |
|       |  |  |  |  |
| <b>14.4. Packing group</b>                                                               |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| II                                                                                       | II                                                                                  | II                                                                                  | II                                                                                    | II                                                                                    |

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| ADR                                    | IMDG                                                      | IATA                              | ADN                               | RID                               |
|----------------------------------------|-----------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| <b>14.5. Environmental hazards</b>     |                                                           |                                   |                                   |                                   |
| Dangerous for the environment: No      | Dangerous for the environment: No<br>Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available |                                                           |                                   |                                   |                                   |

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : F1  
Special provisions (ADR) : 216, 274, 601  
Limited quantities (ADR) : 1kg  
Excepted quantities (ADR) : E2  
Transport category (ADR) : 2  
Hazard identification number (Kemler No.) : 40  
Orange plates :



Tunnel restriction code (ADR) : E

#### Transport by sea

Special provisions (IMDG) : 216, 274  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-I

#### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y441  
PCA limited quantity max net quantity (IATA) : 5kg  
PCA packing instructions (IATA) : 445  
PCA max net quantity (IATA) : 15kg  
CAO max net quantity (IATA) : 50kg  
Special provisions (IATA) : A46

#### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 216, 274, 601, 800  
Limited quantities (ADN) : 1 kg  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : B  
Additional requirements/Remarks (ADN) : VE03, IN01 and IN02 apply only when this substance is carried in bulk or without packaging

#### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 216, 274, 601  
Limited quantities (RID) : 1kg  
Excepted quantities (RID) : E2  
Transport category (RID) : 2  
Hazard identification number (RID) : 40

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

Not applicable

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### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

###### EU restriction list (REACH Annex XVII)

| Reference code | Applicable on                                    |
|----------------|--------------------------------------------------|
| 3(a)           | smartwipes Wet ; butanone ; ethanol ; n-propanol |
| 3(b)           | smartwipes Wet ; butanone ; ethanol ; n-propanol |
| 40.            | smartwipes Wet ; butanone ; ethanol ; n-propanol |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Other information, restriction and prohibition regulations : Take note of Directive 94/33/EC on the protection of young people at work.

##### Directive 2012/18/EU (SEVESO III)

| Seveso III Part I (Categories of dangerous substances)                                   | Qualifying quantity (tonnes) |            |
|------------------------------------------------------------------------------------------|------------------------------|------------|
|                                                                                          | Lower-tier                   | Upper-tier |
| P5c FLAMMABLE LIQUIDS<br>Flammable liquids, Categories 2 or 3 not covered by P5a and P5b | 5000                         | 50000      |

##### 15.1.2. National regulations

###### Germany

|                                            |                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Employment restrictions                    | : Employment prohibitions or restrictions on the protection of young people at work according to § 22 JArbSchG in the case of formation of hazardous substances have to be observed.                                                                                                                                                                                                        |
| Water hazard class (WGK)                   | : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)                                                                                                                                                                                                                                                                                                            |
| Hazardous Incident Ordinance (12. BImSchV) | : Listed in the 12. BImSchV (Annex I) under: 1.2.5.3<br>- Quantity threshold for operational area under § 1 para. 1<br>- Sentence 1 :5000000 kg<br>- Sentence 2 :50000000 kg                                                                                                                                                                                                                |
| National Rules and Recommendations         | : TRGS 400: Risk Assessment for Activities involving Hazardous Substances<br>TRGS 500: Protective measures<br>TRGS 510: Storage of hazardous substances in non-stationary containers<br>TRGS 520: Construction and operation of collection points and temporary storage for small amounts of hazardous waste<br>TRGS 900: Occupational Exposure Limits<br>TRGS 903: Biological limit values |
| Storage class (LGK, TRGS 510)              | : LGK 3 - Flammable liquids                                                                                                                                                                                                                                                                                                                                                                 |

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

#### Indication of changes:

General revision.

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| Indication of changes |                                  |          |          |
|-----------------------|----------------------------------|----------|----------|
| Section               | Changed item                     | Change   | Comments |
| 8.1                   | PNEC                             | Modified |          |
| 9.1                   | Physical and chemical properties | Modified |          |

| 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               |
| BCF                         | Bioconcentration factor                                                                           |
| 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 Rail                      |
| SDS                         | Safety Data Sheet                                                                                 |
| vPvB                        | Very Persistent and Very Bioaccumulative                                                          |
| ATE                         | Acute Toxicity Estimate                                                                           |
| DNEL                        | Derived-No Effect Level                                                                           |
| DMEL                        | Derived Minimal Effect level                                                                      |
| IARC                        | International Agency for Research on Cancer                                                       |
| LOAEL                       | Lowest Observed Adverse Effect Level                                                              |
| NOAEC                       | No-Observed Adverse Effect Concentration                                                          |
| NOAEL                       | No-Observed Adverse Effect Level                                                                  |
| NOEC                        | No-Observed Effect Concentration                                                                  |
| OECD                        | Organisation for Economic Co-operation and Development                                            |
| PNEC                        | Predicted No-Effect Concentration                                                                 |
| STP                         | Sewage treatment plant                                                                            |
| TLM                         | Median Tolerance Limit                                                                            |

Data sources : Information provided by the manufacturer. MSDSs of the suppliers. ECHA (European Chemicals Agency).

Department issuing data specification sheet: : KFT Chemieservice GmbH  
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D-64347 Griesheim

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

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3                                      |
| Aquatic Acute 1     | Hazardous to the aquatic environment — Acute Hazard, Category 1        |
| Aquatic Chronic 2   | Hazardous to the aquatic environment — Chronic Hazard, Category 2      |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1                          |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                          |
| Flam. Liq. 2        | Flammable liquids, Category 2                                          |
| H225                | Highly flammable liquid and vapour.                                    |
| H301                | Toxic if swallowed.                                                    |
| H314                | Causes severe skin burns and eye damage.                               |
| H318                | Causes serious eye damage.                                             |
| H319                | Causes serious eye irritation.                                         |
| H336                | May cause drowsiness or dizziness.                                     |
| H400                | Very toxic to aquatic life.                                            |
| H411                | Toxic to aquatic life with long lasting effects.                       |
| Skin Corr. 1B       | Skin corrosion/irritation, Category 1, Sub-Category 1B                 |
| STOT SE 3           | Specific target organ toxicity — Single exposure, Category 3, Narcosis |

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

|              |      |                    |
|--------------|------|--------------------|
| Flam. Liq. 2 | H225 | Calculation method |
| Eye Dam. 1   | H318 | Calculation method |

KFT SDS EU 01

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.