

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : SWOT  
Product code : 256  
Type of product : Detergent  
Product group : Mixture

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Cleaning/washing agents and additives

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

Christeyns Professional Hygiene UK Ltd  
Clover House  
Macclesfield Road  
SK23 7DQ Whaley Bridge, Derbyshire  
United Kingdom  
T 01663 733114, F 01663 733115  
[info.cph.uk@christeyns.com](mailto:info.cph.uk@christeyns.com), [www.christeyns-ph.co.uk](http://www.christeyns-ph.co.uk)

##### Supplier

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazards identification

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

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

Skin corrosion/irritation, Category 1 H314  
Serious eye damage/eye irritation, Category 1 H318  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

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

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

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

CLP Signal word : Danger  
Contains : Sodium hypochlorite  
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.  
H412 - Harmful to aquatic life with long lasting effects.

# SWOT

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|                                |  |
|--------------------------------|--|
| Precautionary statements (CLP) | : P102 - Keep out of reach of children.<br>P260 - Do not breathe spray.<br>P264 - Wash hands thoroughly after handling.<br>P280 - Wear protective gloves, eye protection.<br>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.<br>P314 - Get medical advice/attention if you feel unwell.<br>P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<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>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>P362 - Take off contaminated clothing and wash before reuse. |
| EUH-statements                 | : EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine).   |

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

| Component   |  |
|---|--|
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides, (308062-28-4) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides, (308062-28-4) |

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier   | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|--|--|-------|---|
| Sodium hypochlorite                                      | CAS-no: 7681-52-9<br>Einecs nr: 231-668-3<br>EG annex nr: 017-011-00-1<br>REACH-no: 01-2119488154-34 | 1 – 3 | Met. Corr. 1, H290<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1)<br>EUH031                |
| Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides, | CAS-no: 308062-28-4<br>Einecs nr: 931-292-6<br>REACH-no: 01-2119490061-47                            | < 1   | Acute Tox. 4 (Oral), H302<br>(ATE=500.00000 mg/kg)<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 2, H411 |

### Specific concentration limits:

| Name                | Product identifier   | Specific concentration limits (%) |
|---------------------|--|-----------------------------------|
| Sodium hypochlorite | CAS-no: 7681-52-9<br>Einecs nr: 231-668-3<br>EG annex nr: 017-011-00-1<br>REACH-no: 01-2119488154-34 | (5 ≤ C ≤ 100) EUH031              |

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

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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

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

|                          |  |
|--------------------------|--|
| Acute effects inhalation | : Inhalation may cause irritation (cough, short breathing, difficulty in breathing). |
| Acute effects skin       | : mild skin irritation.  |
| Acute effects eyes       | : May cause eye irritation. Redness.   |
| Acute effects oral route | : May cause irritation to the digestive tract.                                       |

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water.

#### 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

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

### SECTION 6: Accidental release measures

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

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

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

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

#### 6.2. Environmental precautions

Avoid release to the environment.

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

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

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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

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

Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.  
Incompatible products : Strong acids.  
Incompatible materials : Direct sunlight.  
Packaging materials : polyethylene.

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

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

No additional information available

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No additional information available

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

Avoid all unnecessary exposure.

###### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Chemical goggles or safety glasses

##### 8.2.2.2. Skin protection

###### Hand protection:

Wear protective gloves.

##### 8.2.2.3. Respiratory protection

No additional information available

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

###### Other information:

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

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

|                             |  |
|-----------------------------|--|
| Physical state              | : Liquid   |
| Colour                      | : Colourless.  |
| Physical state/form         | : Liquid.  |
| Odour                       | : Characteristic.  |
| Odour threshold             | : Not available  |
| Melting point/range         | : 0 °C   |
| Freezing point              | : Not determined as it is not relevant for the characterization of the product |
| Boiling point/Boiling range | : 100 °C   |
| Flammability                | : Non flammable.   |
| Lower explosion limit       | : Constituents do not contain chemical groups associated with explosivity      |
| Upper explosion limit       | : Constituents do not contain chemical groups associated with explosivity      |
| Flash point                 | : Not determined as it is not relevant for the characterization of the product |

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|   |   |
|---|---|
| Autoignition temperature                        | : Determination of the auto-ignition temperature is only relevant for pyrophoric liquids, however the mixture is not a pyrophoric liquid so the test is not required. |
| Decomposition temperature                       | : Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose.                                     |
| pH  | : 12  |
| Viscosity, kinematic                            | : Thin liquid   |
| Viscosity, dynamic                              | : < 20 cP at 20 °C  |
| Solubility                                      | : Soluble in water.   |
| Partition coefficient n-octanol/water (Log Kow) | : Not available   |
| Vapour pressure                                 | : Not available   |
| Vapour pressure at 50°C                         | : Not available   |
| Density   | : Not available   |
| Relative density                                | : 1.018 g/cm <sup>3</sup>   |
| Relative vapour density at 20°C                 | : Not available   |
| Particle characteristics                        | : Not applicable  |

### 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Acids.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

| <b>Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides, (308062-28-4)</b> |                       |
|---|-----------------------|
| LD50 oral rat   | 1064 mg/kg            |
| <b>Sodium hypochlorite (7681-52-9)</b>  |                       |
| LD50 oral rat   | > 2000 mg/kg          |
| LD50 oral   | 8910 mg/kg bodyweight |
| LD50 dermal rabbit  | > 2000 mg/kg          |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Causes severe skin burns.<br>pH: 12                              |
| Serious eye damage/irritation     | : Causes serious eye damage.<br>pH: 12                             |
| Respiratory or skin sensitisation | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Germ cell mutagenicity            | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |
| Carcinogenicity                   | : Not classified   |
| Additional information            | : Based on available data, the classification criteria are not met |

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

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|                      |             |
|----------------------|-------------|
| Viscosity, kinematic | Thin liquid |
|----------------------|-------------|

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

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

## SECTION 12: Ecological information

### 12.1. Toxicity

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

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

#### Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides, (308062-28-4)

|                      |            |
|----------------------|------------|
| LC50 - Fish [1]      | 2.67 mg/l  |
| EC50 - Crustacea [1] | 3.1 mg/l   |
| ErC50 algae          | 0.143 mg/l |
| NOEC chronic algae   | 0.067 mg/l |

#### Sodium hypochlorite (7681-52-9)

|                                    |   |
|------------------------------------|---|
| LC50 - Fish [1]                    | 0.06 mg/l (fresh water)                           |
| LC50 - Fish [2]                    | 0.032 mg/l (marine water)                         |
| EC50 - Crustacea [1]               | 0.141 mg/l (Daphnia magna - fresh water)          |
| EC50 - Other aquatic organisms [1] | 0.026 mg/l (Crassostrea virginica - marine water) |

### 12.2. Persistence and degradability

#### SWOT

|                               |                |
|-------------------------------|----------------|
| Persistence and degradability | Biodegradable. |
|-------------------------------|----------------|

#### Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides, (308062-28-4)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

#### Sodium hypochlorite (7681-52-9)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | Strong oxidizing agent, It will react with organic substances present in soil and sediments and degrades rapidly to chloride, Sodium hypochlorite is substantially removed in biological treatment processes. |
|-------------------------------|---|

### 12.3. Bioaccumulative potential

#### SWOT

|                           |                     |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |
|---------------------------|---------------------|

#### Sodium hypochlorite (7681-52-9)

|                           |                           |
|---------------------------|---------------------------|
| Log Pow                   | -3.42                     |
| Bioaccumulative potential | Bioaccumulation unlikely. |

### 12.4. Mobility in soil

No additional information available

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### 12.5. Results of PBT and vPvB assessment

| SWOT  |  |
|---|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII         |  |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII        |  |
| Component   |  |
| Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII  | Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides, (308062-28-4) |
| Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII | Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides, (308062-28-4) |

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Waste / unused products : Avoid release to the environment.  
HP Code : HP8 - "Corrosive:" waste which on application can cause skin corrosion.  
HP12 - "Release of an acute toxic gas:" waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid  
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

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

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

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

Not applicable

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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

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

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

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

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

###### REACH Candidate List (SVHC)

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

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

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

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

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

###### Ozone Regulation (1005/2009)

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

###### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

###### Detergent Regulation (648/2004)

| Labelling of contents                                  |     |
|--|-----|
| Component  | %   |
| non-ionic surfactants, chlorine-based bleaching agents | <5% |

###### Explosives Precursors Regulation (2019/1148)

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

###### Drug Precursors Regulation (273/2004)

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

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Data sources

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

Other information

: None.

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

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4   |
| Aquatic Acute 1     | Hazardous to the aquatic environment – Acute Hazard, Category 1                           |
| Aquatic Chronic 1   | Hazardous to the aquatic environment – Chronic Hazard, Category 1                         |
| Aquatic Chronic 2   | Hazardous to the aquatic environment – Chronic Hazard, Category 2                         |
| EUH031              | Contact with acids liberates toxic gas.   |
| EUH206              | Warning! Do not use together with other products. May release dangerous gases (chlorine). |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1   |
| H290                | May be corrosive to metals.   |
| H302                | Harmful if swallowed.   |
| H314                | Causes severe skin burns and eye damage.  |



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

|               |  |
|---------------|--|
| H315          | Causes skin irritation.                                |
| H318          | Causes serious eye damage.                             |
| H400          | Very toxic to aquatic life.                            |
| H410          | Very toxic to aquatic life with long lasting effects.  |
| H411          | Toxic to aquatic life with long lasting effects.       |
| H412          | Harmful to aquatic life with long lasting effects.     |
| Met. Corr. 1  | Corrosive to metals, Category 1                        |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2                  |

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

|                   |      |                       |
|-------------------|------|-----------------------|
| Skin Corr. 1      | H314 | On basis of test data |
| Eye Dam. 1        | H318 | On basis of test data |
| Aquatic Chronic 3 | H412 | Calculation method    |

Safety Data Sheet (SDS), EU

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