



## SAFETY DATA SHEET

### Phone-Clene 100 Sachets

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

##### 1.1. Product identifier

**Product name** Phone-Clene 100 Sachets

**Product number** APHC100, ZA

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

**Identified uses** Cleaning agent.

**Uses advised against** No specific uses advised against are identified.

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

###### Supplier

AF INTERNATIONAL. A division of HK WENTWORTH LTD  
 ASHBY PARK  
 COALFIELD WAY  
 ASHBY de la ZOUCH  
 LEICESTERSHIRE. LE65 1JR  
 UNITED KINGDOM  
 +44 (0) 1530 419600  
 +44 (0) 1530 416640  
 info@hkw.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** +44 1865 407333

#### SECTION 2: Hazards identification

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

###### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Eye Irrit. 2 - H319

**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Pictogram



###### Signal word

Warning

###### Hazard statements

H319 Causes serious eye irritation.  
 EUH208 Contains 1,2-Benzisothiazol-3(2H)-one, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

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<b>Precautionary statements</b>	<p>P102 Keep out of reach of children.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p>
<b>Detergent labelling</b>	< 5% perfumes, Contains D-LIMONENE, BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Propan-2-ol</b>	<b>10-30%</b>
CAS number: 67-63-0	EC number: 200-661-7
	REACH registration number: 01-2119457558-25-XXXX
<b>Classification</b>	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
STOT SE 3 - H336	
<b>Benzyl-C12-14-alkyldimethylammonium chlorides</b>	<b>&lt;1%</b>
CAS number: —	EC number: 939-350-2
	REACH registration number: 01-2119970550-39-0000
M factor (Acute) = 10	M factor (Chronic) = 1
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>1,2-Benzisothiazol-3(2H)-one</b>	<b>&lt;1%</b>
CAS number: 2634-33-5	EC number: 220-120-9
M factor (Acute) = 1	
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Aquatic Acute 1 - H400	

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<b>2,6-Di-tert-butyl-p-cresol</b>	<b>&lt;1%</b>
CAS number: 128-37-0	EC number: 204-881-4
M factor (Acute) = 1	M factor (Chronic) = 1
<b>Classification</b>	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>Ethanol</b>	<b>&lt;1%</b>
CAS number: 64-17-5	EC number: 200-578-6
<b>Classification</b>	
Flam. Liq. 2 - H225	
<b>Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)</b>	<b>&lt;1%</b>
CAS number: 55965-84-9	
M factor (Acute) = 10	M factor (Chronic) = 1
<b>Classification</b>	
Acute Tox. 3 - H301	
Acute Tox. 3 - H311	
Acute Tox. 2 - H330	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
<b>Skin contact</b>	Rinse with water.
<b>Eye contact</b>	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

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<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	Irritating to eyes.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge to the aquatic environment.

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

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### Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

### 6.4. Reference to other sections

#### Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Usage precautions

Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment.

#### Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

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

#### Storage precautions

Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

#### Storage class

Chemical storage.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

##### 2,6-Di-tert-butyl-p-cresol

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

##### Ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

#### Protective equipment



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<b>Appropriate engineering controls</b>	Provide adequate ventilation.
<b>Eye/face protection</b>	Avoid contact with eyes. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
<b>Hand protection</b>	No specific hand protection recommended.
<b>Other skin and body protection</b>	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
<b>Hygiene measures</b>	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
<b>Respiratory protection</b>	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use. Avoid release to the environment.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Liquid-impregnated wipe.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not available.
<b>pH</b>	pH (concentrated solution): 5-6
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Other flammability</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.

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**Explosive properties** Not considered to be explosive.

**Oxidising properties** Does not meet the criteria for classification as oxidising.

### 9.2. Other information

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

##### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

##### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** No potentially hazardous reactions known.

##### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation.

##### 10.5. Incompatible materials

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

##### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

###### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

###### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

###### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

###### Skin corrosion/irritation

**Animal data** Based on available data the classification criteria are not met.

###### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

###### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

###### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

###### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

###### Carcinogenicity

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<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b>IARC carcinogenicity</b>	Contains a substance/a group of substances which may cause cancer. IARC Group 1 Carcinogenic to humans.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b>Target organs</b>	Central nervous system
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.
<b>General information</b>	
	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	Irritating to eyes.
<b>Route of entry</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target organs</b>	No specific target organs known.

### Propan-2-ol

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 5840 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Animal data** Primary dermal irritation index: 0 REACH dossier information. Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.1 mL, 1 second, Rabbit Causes serious eye irritation.

#### Skin sensitisation

**Skin sensitisation** Buehler test - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.



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**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** NOAEL 5000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 3 - H336 May cause drowsiness or dizziness.

**Target organs** Central nervous system

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEC 5000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Benzyl-C12-14-alkyldimethylammonium chlorides

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 795.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information. Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 795.0

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 3412.5 mg/kg, Dermal, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Animal data** Dose: 0.5 mL, 4 hours, Rabbit REACH dossier information. Corrosive.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Corrosive to skin. Corrosivity to eyes is assumed.

#### Skin sensitisation

**Skin sensitisation** Buehler test - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** NOAEL >2000 ppm, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 61 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

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### Aspiration hazard

**Aspiration hazard** Not relevant. Solid.

### d-Limonene

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Skin corrosion/irritation

**Animal data** Dose: 0.5 mL, 4 hours, Rabbit REACH dossier information. Irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.1 mL, 7 days, Rabbit REACH dossier information. Not irritating.

### Skin sensitisation

**Skin sensitisation** Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** DNA damage and/or repair: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Carcinogenicity

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 1650 mg/kg/day, Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** 1.003 cSt @ 25°C/77°F REACH dossier information. Aspiration hazard if swallowed.

### Pin-2(3)-ene

### Skin corrosion/irritation

**Human skin model test** Cell Viability 39.6% 15 minutes REACH dossier information. Irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.1 mL, 8 days, Rabbit Based on available data the classification criteria are not met.

### Skin sensitisation

**Skin sensitisation** Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

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**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** Aspiration hazard if swallowed.

### 1,2-Benzisothiazol-3(2H)-one

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 675.3

**Species** Rat

**ATE oral (mg/kg)** 675.3

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Dermal, Rabbit Supplier's information. Based on available data the classification criteria are not met.

### Skin corrosion/irritation

**Skin corrosion/irritation** Irritating to skin.

### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: , 100% , Rabbit May cause serious eye damage.

### Skin sensitisation

**Skin sensitisation** - Mouse: Sensitising.

### Citral

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 6800 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Skin corrosion/irritation

**Animal data** Dose: 0.5 mL, 15 minutes, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Slight oedema - edges of area well defined by definite raising (2). REACH dossier information. Highly irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.1 mL, 8 days, Rabbit Causes serious eye irritation.

### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. REACH dossier information.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

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**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** NOAEL 100 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Reproductive toxicity

**Reproductive toxicity - fertility** Screening - NOAEL 1000 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 200 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

## 2,6-Di-tert-butyl-p-cresol

**Toxicological effects** Not regarded as a health hazard under current legislation.

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2930 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Skin corrosion/irritation

**Animal data** Dose: 0.5 mL, 24 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.

### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 100 mg, 72 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** NOAEL 25 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 500 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 100 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

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**STOT - repeated exposure** NOAEL 25 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Pin-2(10)-ene

#### Skin corrosion/irritation

**Human skin model test** Cell Viability 38.5% 15 minutes REACH dossier information. Irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.1 mL, 8 days, Rabbit Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

#### Reproductive toxicity

**Reproductive toxicity - development** Fetotoxicity: - NOAEL: 250 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Aspiration hazard

**Aspiration hazard** Aspiration hazard if swallowed.

### Ethanol

**Toxicological effects** Not regarded as a health hazard under current legislation.

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 10470 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LD<sub>50</sub> 124.7 mg/l, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Animal data** Dose: 0.2 mL, 24 hours, Rabbit Primary dermal irritation index: 0 REACH dossier information. Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

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### Carcinogenicity

**IARC carcinogenicity** IARC Group 1 Carcinogenic to humans.

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 15% , Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** LOAEL ~4000 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

**Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)**

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 64.0

**Species** Rat

**ATE oral (mg/kg)** 64.0

### Acute toxicity - dermal

**ATE dermal (mg/kg)** 300.0

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 0.33

**Species** Rat

**ATE inhalation (dusts/mists mg/l)** 0.33

### Skin corrosion/irritation

**Skin corrosion/irritation** Corrosive to skin., Causes burns.

### Serious eye damage/irritation

**Serious eye damage/irritation** Corrosivity to eyes is assumed.

### Skin sensitisation

**Skin sensitisation** Epidemiological studies have shown evidence of skin sensitisation.

### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

### Carcinogenicity

**Carcinogenicity** No evidence of carcinogenicity in animal studies.

### Reproductive toxicity

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**Reproductive toxicity - fertility** No evidence of reproductive toxicity in animal studies.

### SECTION 12: Ecological Information

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

#### 12.1. Toxicity

**Toxicity** Based on available data the classification criteria are not met.

#### Propan-2-ol

**Toxicity** Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 10000 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 24 hours: >10000 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 7 days: 1800 mg/l, Scenedesmus quadricauda

#### Benzyl-C12-14-alkyldimethylammonium chlorides

**Toxicity** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.01 < L(E)C<sub>50</sub> ≤ 0.1

**M factor (Acute)** 10

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.85 mg/l, Onchorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 0.32 mg/l, Acartia tonsa

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 0.03 mg/l, Selenastrum capricornutum

#### Chronic aquatic toxicity

**M factor (Chronic)** 1

**Short term toxicity - embryo and sac fry stages** NOEC, 28 days: 0.032 mg/l, Pimephales promelas (Fat-head Minnow)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.0045 mg/l, Daphnia magna

#### d-Limonene

**Toxicity** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

#### Acute aquatic toxicity

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<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
<b>M factor (Acute)</b>	1
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 0.72 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.36 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 150 mg/l, Desmodemus subspicatus
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 3 hours: 209 mg/l, Activated sludge
<b><u>Chronic aquatic toxicity</u></b>	
<b>M factor (Chronic)</b>	1

### Pin-2(3)-ene

**Toxicity** Aquatic toxicity is unlikely to occur.

### 1,2-Benzisothiazol-3(2H)-one

#### Acute aquatic toxicity

<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
<b>M factor (Acute)</b>	1
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 1.9 mg/l, Onchorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 96 hours: 1.9 mg/l, Mysidopsis bahia EC <sub>50</sub> , 48 hours: 2.94 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 0.38 mg/l, Pseudokirchneriella subcapitata

### Citral

**Toxicity** Based on available data the classification criteria are not met.

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 6.78 mg/l, Leuciscus idus (Golden orfe)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 6.8 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 103.8 mg/l, Scenedesmus subspicatus

### 2,6-Di-tert-butyl-p-cresol

**Toxicity** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

#### Acute aquatic toxicity

<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
<b>M factor (Acute)</b>	1



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**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.48 mg/l, Daphnia magna

### Chronic aquatic toxicity

**M factor (Chronic)** 1

### Pin-2(10)-ene

**Toxicity** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.557 mg/l, Cyprinus carpio (Common carp)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 1.25 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 48 hours: 0.826 mg/l, Pseudokirchneriella subcapitata

### Chronic aquatic toxicity

**M factor (Chronic)** 1

### Ethanol

**Toxicity** Based on available data the classification criteria are not met.

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 5012 mg/l, Ceriodaphnia dubia

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 11.5 mg/l, Chlorella vulgaris

**Chronic toxicity - aquatic invertebrates** NOEC, 9 days: 9.6 mg/l, Daphnia magna

**Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)**

### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.01 < L(E)C<sub>50</sub> ≤ 0.1

**M factor (Acute)** 10

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.19 mg/l, Onchorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.16 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 0.027 mg/l, Selenastrum capricornutum

### Chronic aquatic toxicity

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M factor (Chronic) 1

### 12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

#### Propan-2-ol

**Persistence and degradability** The substance is readily biodegradable.

**Biodegradation** Water - Degradation 53%: 5 days

**Biological oxygen demand** 1.19-1.72 g O<sub>2</sub>/g substance

**Chemical oxygen demand** 2.23 g O<sub>2</sub>/g substance

#### Benzyl-C12-14-alkyldimethylammonium chlorides

**Persistence and degradability** The substance is readily biodegradable.

**Phototransformation** Water - DT<sub>50</sub> : 0.26 days

**Stability (hydrolysis)** pH4 - Recovery 94.6%: 30 days @ 25°C  
pH7 - Recovery 94.4%: 30 days @ 25°C  
pH9 - Recovery 99.5%: 30 days @ 25°C

**Biodegradation** Water - Degradation 95.5%: 28 days

#### d-Limonene

**Persistence and degradability** The substance is readily biodegradable.

**Phototransformation** Water - Half-life : 0.365 hours  
Estimated value.

**Biodegradation** Water - Degradation 80%: 28 days

#### Pin-2(3)-ene

**Persistence and degradability** The product is biodegradable.

**Phototransformation** Water - DT<sub>50</sub> : 0.44-1.41 hours

#### Citral

**Persistence and degradability** The substance is readily biodegradable.

**Phototransformation** Water - DT<sub>50</sub> : 37.35 minutes

**Biodegradation** Water - Degradation 85-95%: 28 days

#### 2,6-Di-tert-butyl-p-cresol

**Persistence and degradability** Not readily biodegradable.

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**Phototransformation** Water - DT<sub>50</sub> : 7 hours  
Estimated value.

**Biodegradation** Water - Degradation 4.5%: 28 days

### Pin-2(10)-ene

**Persistence and degradability** The substance is readily biodegradable.

**Biodegradation** Water - Degradation 76%: 28 days

### Ethanol

**Persistence and degradability** The substance is readily biodegradable.

**Biodegradation** Water - Degradation 74%: 10 days

**Chemical oxygen demand** 1.99 g O<sub>2</sub>/g substance

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

**Biodegradation** Water - DT<sub>50</sub> : 0.2 - 1.3 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not available.

### Propan-2-ol

**Bioaccumulative potential** Bioaccumulation is unlikely.

### Benzyl-C12-14-alkyldimethylammonium chlorides

**Bioaccumulative potential** BCF: 67.62, Estimated value. Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 2.75

### d-Limonene

**Bioaccumulative potential** BCF: 1022, Estimated value.

**Partition coefficient** log Pow: 4.38

### Pin-2(3)-ene

**Bioaccumulative potential** BCF: 1845, Estimated value. Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 4.487

### 1,2-Benzisothiazol-3(2H)-one

**Partition coefficient** log Pow: 1.19

### Citral

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**Bioaccumulative potential** BCF: 89.72, Estimated value. The product is not bioaccumulating.

**Partition coefficient** log Pow: 2.76

### 2,6-Di-tert-butyl-p-cresol

**Bioaccumulative potential** BCF: 330, Cyprinus carpio (Common carp)

**Partition coefficient** log Pow: 5.1

### Pin-2(10)-ene

**Bioaccumulative potential** BCF: 383.1, Estimated value. Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 4.425

### Ethanol

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: -0.35

### Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 0.401

#### 12.4. Mobility in soil

**Mobility** No data available.

### Propan-2-ol

**Mobility** The product is soluble in water.

### Benzyl-C12-14-alkyldimethylammonium chlorides

**Mobility** The product is soluble in water.

**Henry's law constant** 0.00000104 Pa m<sup>3</sup>/mol @ 25°C Estimated value.

**Surface tension** 28.27 mN/m @ 19.7°C

### d-Limonene

**Mobility** The product is partly soluble in water and may spread in the aquatic environment.

**Adsorption/desorption coefficient** Water - Koc: 1984 @ 25°C

### Pin-2(3)-ene

**Mobility** The product is insoluble in water.

**Adsorption/desorption coefficient** Water - Koc: 2184 @ 25°C Estimated value.

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### Citral

<b>Mobility</b>	The product is partly soluble in water and may spread in the aquatic environment.
<b>Adsorption/desorption coefficient</b>	Water - Log Koc: 2.169 @ 25°C Estimated value.
<b>Henry's law constant</b>	0.000376 atm m <sup>3</sup> /mol @ 25°C

### 2,6-Di-tert-butyl-p-cresol

<b>Mobility</b>	The product is partly soluble in water and may spread in the aquatic environment.
<b>Henry's law constant</b>	0.342 Pa m <sup>3</sup> /mol @ 25°C

### Pin-2(10)-ene

<b>Mobility</b>	The product is partly soluble in water and may spread in the aquatic environment.
<b>Adsorption/desorption coefficient</b>	Water - Koc: 2080 @ 25°C Estimated value.

### Ethanol

<b>Mobility</b>	The product is soluble in water.
<b>Surface tension</b>	24.5 mN/m @ 20°C/68°F

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

<b>Mobility</b>	No data available.
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## 12.5. Results of PBT and vPvB assessment

### Propan-2-ol

<b>Results of PBT and vPvB assessment</b>	This substance is not classified as PBT or vPvB according to current EU criteria.
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### Benzyl-C12-14-alkyldimethylammonium chlorides

<b>Results of PBT and vPvB assessment</b>	This substance is not classified as PBT or vPvB according to current EU criteria.
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### d-Limonene

<b>Results of PBT and vPvB assessment</b>	This substance is not classified as PBT or vPvB according to current EU criteria. Estimated value.
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### Pin-2(3)-ene

<b>Results of PBT and vPvB assessment</b>	This substance is not classified as PBT or vPvB according to current EU criteria.
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### 1,2-Benzisothiazol-3(2H)-one

## Phone-Clene 100 Sachets

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Citral

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 2,6-Di-tert-butyl-p-cresol

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Pin-2(10)-ene

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Ethanol

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects** None known.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### **SECTION 14: Transport information**

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

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

## Phone-Clene 100 Sachets

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### **Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

## SECTION 15: Regulatory information

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

#### **National regulations**

Health and Safety at Work etc. Act 1974 (as amended).

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EH40/2005 Workplace exposure limits.

#### **EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Commission Regulation (EU) No 453/2010 of 20 May 2010.

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 (as amended).

Dangerous Preparations Directive 1999/45/EC.

Dangerous Substances Directive 67/548/EEC.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

#### **Classification procedures according to Regulation (EC) 1272/2008**

Eye Irrit. 2 - H319: : Calculation method.

#### **Training advice**

Read and follow manufacturer's recommendations.

#### **Issued by**

Toni Ashford

#### **Revision date**

24/05/2016

#### **Revision**

1

#### **SDS number**

242

## Phone-Clene 100 Sachets

### Hazard statements in full

H225 Highly flammable liquid and vapour.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
EUH208 Contains 1,2-Benzisothiazol-3(2H)-one, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.