

**SAFETY DATA SHEET**

i-4 - Floor Cleaner &amp; Sanitiser (no fragrance)

**Page:** 1**Compilation date:** 08/11/2016**Revision date:** 08/11/2016**Revision No:** 1.0**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name:** i-4 - Floor Cleaner & Sanitiser (no fragrance)**Product code:** i-4**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of substance / mixture:** PC8: Biocidal products (e.g. Disinfectants, pest control).**1.3. Details of the supplier of the safety data sheet****Company name:** Future Cleaning Technologies B.V.

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5626 DD

Eindhoven

NL

**Tel:** +31 (0)40 266 24 00**Email:** www.i-mop.biz**1.4. Emergency telephone number****Emergency tel:** +31 (0)40 266 24 00

(office hours only)

**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Corr. 1B: H314**Most important adverse effects:** Causes severe skin burns and eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.**2.2. Label elements****Label elements:****Hazard statements:** H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS05: Corrosion

GHS09: Environmental

**Signal words:** Danger

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- Precautionary statements:** P102: Keep out of reach of children.  
P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P337+313: If eye irritation persists: Get medical attention.  
P332+313: If skin irritation occurs: Get medical attention.  
P273: Avoid release to the environment.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

C 12/15 (MEAN VALUE C<14)A.>6-9 EO (DID 28)

EINECS	CAS	PBT / WEL	CLP Classification	Percent
POLYMER	9043-30-5	-	Eye Dam. 1: H318; Acute Tox. 4: H302	1-10%

QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES

270-325-2	68424-85-1	-	Met. Corr. 1: H290; Skin Corr. 1B: H314; Eye Dam. 1: H318; Aquatic Acute 1: H400; Acute Tox. 4: H302	1-10%
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DIDECYLDIMETHYLAMMONIUM CHLORIDE

230-525-2	7173-51-5	-	Acute Tox. 4: H302; Skin Corr. 1B: H314	1-10%
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C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

POLYMER	160875-66-1	-	Eye Dam. 1: H318	1-10%
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ALCOHOLS, C12-C14, ETHOXYLATED

POLYMER	68439-50-9	-	Aquatic Acute 1: H400; Eye Dam. 1: H318	<1%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Rinse skin with water. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor.

[cont...]

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**Inhalation:** Not applicable.

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

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and pain.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Water.

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

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

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

**Clean-up procedures:** Transfer to a suitable container.

### 6.4. Reference to other sections

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid the formation or spread of mists in the air.

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

**Storage conditions:** Keep container tightly closed.

**Suitable packaging:** Polyethylene.

### 7.3. Specific end use(s)

[cont...]

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## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Not applicable.

**Hand protection:** Protective gloves. Nitrile gloves.

**Eye protection:** Safety glasses.

## Section 9: Physical and chemical properties

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

**State:** Liquid

**Colour:** Yellow

**Odour:** Barely perceptible odour

**Evaporation rate:** Not applicable.

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Soluble

**Viscosity:** Non-viscous

**Boiling point/range°C:** 100

**Melting point/range°C:** 0

**Flammability limits %: lower:** Not applicable.

**upper:** Not applicable.

**Part.coeff. n-octanol/water:** Not applicable.

**Autoflammability°C:** Not applicable.

**Vapour pressure:** Not applicable.

**Relative density:** 1.003

**pH:** 11

**VOC g/l:** 0

### 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

[cont...]

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## 10.5. Incompatible materials

## 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Hazardous ingredients:

##### C 12/15 (MEAN VALUE C<14)A.>6-9 EO (DID 28)

ORL	RAT	LD50	1.5	g/kg
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##### QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES

ORAL	RAT	LD50	795	mg/kg
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##### DIDECYLDIMETHYLAMMONIUM CHLORIDE

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	658	mg/kg

##### C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

ORL	RAT	LD50	>2000	mg/kg
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##### ALCOHOLS, C12-C14, ETHOXYLATED

ORL	RAT	LD50	>5000	mg/kg
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#### Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and pain.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

[cont...]

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## Hazardous ingredients:

### C 12/15 (MEAN VALUE C<14)A.>6-9 EO (DID 28)

-	96H LC50	>1	mg/l
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### QUATERNARY AMMONIUM COMPOUNDS, BENZYL (C12-C16)ALKYL DIMETHYL CHLORIDES

Daphnia magna	48H EC50	.016	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	.026	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	.85	mg/l

### DIDECYLDIMETHYLAMMONIUM CHLORIDE

Daphnia magna	48H EC50	0.06	mg/l
GREEN ALGA (Selenastrum capricornutum)	96H LC50	0.12	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	0.97	mg/l

### C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21)

Scenedesmus	48H EC50	10 - 100	mg/l
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### ALCOHOLS, C12-C14, ETHOXYLATED

-	48H EC50	>1-<=10	mg/l
-	48H EC50	>100	mg/l
-	96H LC50	>1-<=10	mg/l
-	96H LC50	>1-<=10	mg/l

## 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in regulation (EC) No.648/2004 on detergents.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

## 12.4. Mobility in soil

**Mobility:** Soluble in water.

## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal of packaging:** Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

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## Section 14: Transport information

### 14.1. UN number

UN number: UN3082

### 14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(alkyldimethylbenzylammoniumchloride, didecyldimethylammoniumchloride)

### 14.3. Transport hazard class(es)

Transport class: 9

### 14.4. Packing group

Packing group: III

### 14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

### 14.6. Special precautions for user

Tunnel code: E

Transport category: 3

## Section 15: Regulatory information

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

Specific regulations: . . . .

### 15.2. Chemical Safety Assessment

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H290: May be corrosive to metals.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Legend to abbreviations:** PNEC = predicted no effect concentration  
DNEL = derived no effect level  
LD50 = median lethal dose  
LC50 = median lethal concentration

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LDLO = lethal dose low

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

PGN = pigeon

IVN = intravenous

SCU = subcutaneous

ORL = oral

SKN = skin

DRM = dermal

OCC = ocular/corneal

OPT = optical

ING = ingestion

INH = inhalation

PCP = physico-chemical properties

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.