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## MATERIAL SAFETY DATA SHEET

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

#### 1.1 Product identifiers

**Product name:** DOMESTOS 5L PROFESSIONAL BLEACH  
**Item Code:** DOM005  
**Brand:** Solmedia Ltd

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

**Identified uses:** For professional use only.  
AISE-P301 - General purpose cleaner. Manual process  
AISE-P305 - Sanitary cleaner. Manual process  
AISE-P314 - Surface disinfectant. Manual process

**Uses advised against:** Uses other than those identified

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

- Name of Supplier: Solmedia Ltd.  
- Address of Supplier: Unit 2, Vernon Drive  
Battlefield Enterprise Park  
Shrewsbury  
SY1 3TF  
UK  
- Telephone: 0844 80 80 900  
- Email: labsupplies@solmedialtd.com

#### 1.4 Emergency telephone number

Emergency Phone # +44 (0)844 80 80 900

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

EUH031  
Skin Corr. 1B (H314)  
Aquatic Acute 1 (H400)  
Aquatic Chronic 2 (H411)  
Met. Corr. 1 (H290)

#### 2.2 Label elements



**Signal word:** Danger.

Contains sodium hypochlorite (Sodium Hypochlorite).

**Hazard statements:** EUH031 - Contact with acids liberates toxic gas.  
 H314 - Causes severe skin burns and eye damage.  
 H410 - Very toxic to aquatic life with long lasting effects.  
 H290 - May be corrosive to metals.

**Precautionary statements:**

P260 - Do not breathe vapours.  
 P280 - Wear protective gloves, protective clothing and eye or face protection.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 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 CENTRE, doctor or physician.

## 2.3 Other hazards

No other hazards known

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Ingredients	EC Number	CAS Number	REACH Number	Classification	Weight percent
sodium hypochlorite	231-668-3	7681-52-9	01-2119488154-34	EUH031 Skin Corr. 1B (H314) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Met. Corr. 1 (H290)	3-10
sodium hydroxide	215-185-5	1310-73-2	01-2119457892-27	Skin Corr. 1A (H314) Met. Corr. 1 (H290)	0.1-1

\* Polymer.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General Information:

If breathing is irregular or stopped, administer artificial respiration.  
If unconscious place in recovery position and seek medical advice.  
Provide fresh air. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

#### Inhalation:

Get medical attention or advice if you feel unwell

#### Skin Contact:

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.

#### Eye Contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

#### Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

#### Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

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

**Inhalation:**

May cause bronchospasm in chlorine sensitive individuals.

**Skin Contact:**

Causes severe burns

**Eye Contact:**

Causes severe or permanent damage

**Ingestion:**

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

**5.2 Special hazards arising from the substance or mixture**

No special hazards known.

**5.3 Advice for firefighters**

As in any fire, wear self-contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Do not breathe dust or vapour. In case of an incident in a confined area wear suitable respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

**6.2 Environmental precautions**

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

### 6.3 Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Ensure adequate ventilation.

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Unilever. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe vapours. Use only with adequate ventilation.

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

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container. Keep from freezing.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

### 7.3 Specific end use(s)

No specific advice for end uses available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Workplace exposure limits

Air limit values, if available:

<b>Ingredient(s)</b>	<b>UK – Long Term Value(s)</b>	<b>UK – Short Term Value(s)</b>
Sodium Hydroxide		2 mg/m3

Biological limit values, if available:

Additional exposure limits under the conditions of use, if available:

#### **DNEL/DMEL and PNEC values**

##### **Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

<b>Ingredient(s)</b>	<b>Short term – Local effects</b>	<b>Short term – Systemic effects</b>	<b>Long term – Local effects</b>	<b>Long term – Systemic effects</b>
Sodium Hypochlorite	-	-	-	0.26
Sodium Hydroxide	-	-	-	-

DNEL dermal exposure – Worker

<b>Ingredient(s)</b>	<b>Short term – Local effects</b>	<b>Short term – Systemic effects</b>	<b>Long term – Local effects</b>	<b>Long term – Systemic effects</b>
Sodium Hypochlorite	-	-	0.5%	-
Sodium Hydroxide	2%	-	-	-

DNEL dermal exposure – Consumer

<b>Ingredient(s)</b>	<b>Short term – Local effects</b>	<b>Short term – Systemic effects</b>	<b>Long term – Local effects</b>	<b>Long term – Systemic effects</b>
Sodium Hypochlorite	-	-	0.5%	-
Sodium Hydroxide	2%	-	-	-

DNEL inhalatory exposure - Worker (mg/m3)

<b>Ingredient(s)</b>	<b>Short term – Local effects</b>	<b>Short term – Systemic effects</b>	<b>Long term – Local effects</b>	<b>Long term – Systemic effects</b>
Sodium Hypochlorite	3.1	3.1	1.55	1.55
Sodium Hydroxide	-	-	1	-

DNEL inhalatory exposure - Consumer (mg/m3)

<b>Ingredient(s)</b>	<b>Short term – Local effects</b>	<b>Short term – Systemic effects</b>	<b>Long term – Local effects</b>	<b>Long term – Systemic effects</b>
Sodium Hypochlorite	3.1	3.1	1.55	1.55
Sodium Hydroxide	-	-	1	-

##### **Environmental exposure**

Environmental exposure – PNEC

<b>Ingredient(s)</b>	<b>Short term – Local effects</b>	<b>Short term – Systemic effects</b>	<b>Long term – Local effects</b>	<b>Long term – Systemic effects</b>
Sodium Hypochlorite	0.00021	0.000042	0.00026	0.03
Sodium Hydroxide	-	-	-	-

Environmental exposure - PNEC, continued

<b>Ingredient(s)</b>	<b>Short term – Local effects</b>	<b>Short term – Systemic effects</b>	<b>Long term – Local effects</b>	<b>Long term – Systemic effects</b>
Sodium Hypochlorite	-	-	-	0.00026
Sodium Hydroxide	-	-	-	-

## 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.

If available, please refer to the product information sheet for application and handling instructions.

Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

### **Appropriate engineering controls:**

If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.

### **Appropriate organisational controls:**

Avoid direct contact and/or splashes where possible. Train personnel

### **Personal protective equipment**

#### **Eye / face protection:**

Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

#### **Hand protection:**

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the glove's supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time:  $\geq$  480 min Material thickness:  $\geq$  0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:**

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur.

**Respiratory protection:**

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**Environmental exposure controls:**

Should not reach sewage water or drainage ditch undiluted.

**Recommended safety measures for handling the diluted product:**

**Recommended maximum concentration (%): 2.6**

**Appropriate engineering controls:**

No special requirements under normal use conditions.

**Appropriate organisational controls:**

No special requirements under normal use conditions.

**Personal protective equipment****Eye / face protection:**

No special requirements under normal use conditions.

**Hand protection:**

Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

**Body protection:**

No special requirements under normal use conditions.

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:**

No special requirements under normal use conditions.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**



Information in this section refers to the product, unless it is specifically stated that substance data is listed

		Method/remark
<b>Physical State:</b>	Liquid	
<b>Colour:</b>	Clear, Light, Yellow	
<b>Odour:</b>	Slightly perfumed	
<b>Odour threshold:</b>	Not applicable	
<b>pH:</b>	> 12 (neat)	ISO 4316
<b>Melting point/freezing point (°C):</b>	Not determined	N.A.
<b>Initial boiling point and boiling range (°C):</b>		See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
Sodium Hypochlorite	Product decomposes before boiling	Method not given	1013
Sodium Hydroxide	> 990	Method not given	

		Method/remark
<b>Flash point (°C):</b>	Not applicable.	
<b>Sustained combustion:</b>	Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)	
<b>Evaporation rate:</b>	Not relevant for classification of this product.	N.A
<b>Flammability (solid, gas):</b>	Not applicable to liquids	
<b>Upper/lower flammability limit (%):</b>	Not determined	See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower Limit (% vol)	Upper Limit (% vol)
Sodium Hypochlorite	-	-

		Method/remark
<b>Vapour pressure:</b>	Refer Vapour pressure Value (Pa)	N.A.

## Substance data, vapour pressure

<b>Ingredient(s)</b>	<b>Value (Pa)</b>	<b>Method</b>	<b>Temperature (°C)</b>
Sodium Hypochlorite	1700	Method not given	20
Sodium Hydroxide	<1330	Method not given	20

## Method/remark

**Vapour density:** Not applicable, no vapour pressure data available. N.A

**Relative density:**  $\approx 1.08$  (20 °C) OECD 109 (EU A.3)

**Solubility in / Miscibility with Water:**  
Fully miscible

## Substance data, solubility in water

<b>Ingredient(s)</b>	<b>Value (g/l)</b>	<b>Method</b>	<b>Temperature (°C)</b>
Sodium Hypochlorite	Soluble		
Sodium Hydroxide	1000	Method not given	20

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

## Method/remark

**Autoignition temperature:**  
Not determined N.A

**Decomposition temperature:**  
Not applicable.

**Viscosity:**  $\approx 650$  mPa.s (20 °C) Refer Test Method Notes

**Explosive properties:** Not explosive. N.A

**Oxidising properties:** Not oxidising. N.A.

## 9.2 Other safety information

**Surface tension (N/m):** Not determined Not relevant to classification of this product

**Corrosion to metals:** Corrosive Weight of evidence

Substance data, dissociation constant, if available:

<b>Ingredient(s)</b>	<b>Value</b>	<b>Method</b>	<b>Temperature (°C)</b>
Sodium Hypochlorite	7.53 (pKa)	Method not given	

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

Reacts with acids releasing toxic chlorine gas. Keep away from acids.

**10.6 Hazardous decomposition products**

Chlorine.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >5000

Substance data, where relevant and available, are listed below:

**Acute toxicity**

Acute oral toxicity

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (h)</b>
Sodium Hypochlorite	LD 50	> 1100	Rat		90
Sodium Hydroxide		No data available			

Acute dermal toxicity

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (h)</b>
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Sodium Hypochlorite	LD 50	> 20000	Rabbit	OECD 402 (EU B.3)	
Sodium Hydroxide		No data available			

## Acute inhalative toxicity

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (h)</b>
Sodium Hypochlorite	LC 50	> 10.5 (vapour)	Rat	OECD 403 (EU B.2)	1
Sodium Hydroxide		No data available			

## Irritation and corrosivity

## Skin irritation and corrosivity

<b>Ingredient(s)</b>	<b>Result</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (h)</b>
Sodium Hypochlorite	Corrosive	Rabbit	OECD 404 (EU B.4)	
Sodium Hydroxide	Corrosive	Rabbit	Method not given	

## Eye irritation and corrosivity

<b>Ingredient(s)</b>	<b>Result</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (h)</b>
Sodium Hypochlorite	Severe damage	Rabbit	OECD 405 (EU B.5)	
Sodium Hydroxide	Corrosive	Rabbit	Method not given	

## Respiratory tract irritation and corrosivity

<b>Ingredient(s)</b>	<b>Result</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (h)</b>
Sodium Hypochlorite	Irritating to respiratory tract			
Sodium Hydroxide	No data available			

## Sensitisation

## Sensitisation by skin contact

<b>Ingredient(s)</b>	<b>Result</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (h)</b>
Sodium Hypochlorite	Not sensitising	Guinea pig	OECD 406 (EU B.6) Buehler test	
Sodium Hydroxide	Not sensitising		Human repeated patch test	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time (h)
Sodium Hypochlorite	No data available			
Sodium Hydroxide	No data available			

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

## Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in vivo)	Method (in vivo)
Sodium Hypochlorite	No evidence for mutagenicity	OECD 471 (EU B.12/13)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
Sodium Hydroxide	No evidence for mutagenicity, negative test results	DNA repair test on rat hepatocytes OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)

## Carcinogenicity

Ingredient(s)	Effect
Sodium Hypochlorite	No evidence for carcinogenicity, negative test results
Sodium Hydroxide	No evidence for carcinogenicity, weight-of-evidence

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/g bw/d)	Species	Method	Exposure time (h)	Remarks and other effects reported
Sodium Hypochlorite	NOAEL	Developmental toxicity Impaired fertility	5 (CI)	Rat	OECD 414 (EU B.31), oral OECD 415 (EU B.34), oral		No evidence for reproductive toxicity
Sodium Hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity

**Repeated dose toxicity**

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/g bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
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Sodium Hypochlorite	NOAEL	50	Rat	OECD 408 (EU B.26)	90	
Sodium Hydroxide		No data available				

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/g bw/d)	Species	Method	Exposure time(days)	Specific effects and organs affected
Sodium Hypochlorite		No data available				
Sodium Hydroxide		No data available				

## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/g bw/d)	Species	Method	Exposure time(days)	Specific effects and organs affected
Sodium Hypochlorite		No data available				
Sodium Hydroxide		No data available				

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/g bw/d)	Species	Method	Exposure time	Specific effects and organs affected
Sodium Hypochlorite			No data available				
Sodium Hydroxide			No data available				

## STOT-single exposure

Ingredient(s)	Affected organ(s)
Sodium Hypochlorite	Not applicable
Sodium Hydroxide	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
Sodium Hypochlorite	Not applicable
Sodium Hydroxide	No data available

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

### Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

#### Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Sodium Hypochlorite	LC 50	0.06	Oncorhynchus mykiss	Method not given	96
Sodium Hydroxide	LC50	35	Various species	Method not given	96

Aquatic short-term toxicity – crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Sodium Hypochlorite	EC 50	0.035	Ceriodaphnia dubia	OECD 202 (EU C.2)	48
Sodium Hydroxide	EC50	40.4	Ceriodaphnia sp.	Method not given	48

Aquatic short-term toxicity – algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Sodium Hypochlorite	NOEC	0.0021	Not specified	Method not given	168
Sodium Hydroxide	EC50	22	<i>Photobacterium phosphoreum</i> .	Method not given	0.25

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
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Sodium Hypochlorite	EC50	0.026	Crassostrea Virginica	Method not given	2
Sodium Hydroxide		No data available			-

Impact on sewage plants - toxicity to bacteria

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/l)</b>	<b>Inoculum</b>	<b>Method</b>	<b>Exposure time</b>
Sodium Hypochlorite		0.375	Activated sludge	Method not given	
Sodium Hydroxide		No data available			

### Aquatic long-term toxicity

Aquatic long-term toxicity – fish

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/l)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time</b>	<b>Effects observed</b>
Sodium Hypochlorite	NOEC	0.04	Menidia pelinsulae	Method not given	96 hour(s)	
Sodium Hydroxide		No data available				

Aquatic long-term toxicity – crustacea

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/l)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time</b>	<b>Effects observed</b>
Sodium Hypochlorite		No data available				
Sodium Hydroxide		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw sediment)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
Sodium Hypochlorite		No data available			-	
Sodium Hydroxide		No data available			-	

### Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:



<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
Sodium Hypochlorite		No data available			-	
Sodium Hydroxide		No data available			-	

Terrestrial toxicity - plants, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
Sodium Hypochlorite		No data available			-	
Sodium Hydroxide		No data available			-	

Terrestrial toxicity - birds, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
Sodium Hypochlorite		No data available			-	
Sodium Hydroxide		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
Sodium Hypochlorite		No data available			-	
Sodium Hydroxide		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

<b>Ingredient(s)</b>	<b>Endpoint</b>	<b>Value (mg/kg dw soil)</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time (days)</b>	<b>Effects observed</b>
Sodium Hypochlorite		No data available			-	
Sodium Hydroxide		No data available			-	

## 12.2 Persistence and degradability

### Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
Sodium Hypochlorite	115 day(s)	Indirect photo-oxidation		
Sodium Hydroxide	13 second(s)	Method not given	Rapidly photodegradable	

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

### Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical Method	DT50	Method	Evaluation
Sodium Hypochlorite					Not applicable (inorganic substance)
Sodium Hydroxide					Not applicable (inorganic substance)

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K<sub>ow</sub>)

Ingredient(s)	Value	Method	Evaluation	Remark
Sodium Hypochlorite	-3.42	Method not given	No bioaccumulation expected	
Sodium Hydroxide	No data available		Not relevant, does not bioaccumulate	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Sodium Hypochlorite	No data available				
Sodium Hydroxide	No data available				

## 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log KOC	Desorption coefficient Log KOC (des)	Method	Soil/sediment type	Evaluation
Sodium Hypochlorite	1.12				High potential for mobility in soil
Sodium Hydroxide	No data available				Mobile in soil

## 12.5 Results of PBT and vPvB assessment

Substances that fulfil the criteria for PBT/vPvB, if any, are listed in section 3.

## 12.6 Other adverse effects

No other adverse effects known.

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

### Waste from residues / unused products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

### European Waste Catalogue:

20 01 29\* - detergents containing dangerous substances.

### Empty packaging

### Recommendation:

Dispose of observing national or local regulations.

### Suitable cleaning agents:

Water, if necessary, with cleaning agent.

# SECTION 14: Transport information



Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

**14.1 UN number**

1760

**14.2 UN proper shipping name**

Corrosive liquid, n.o.s. (sodium hydroxide, hypochlorite)

**14.3 Transport hazard class(es)**

**Class:** 8

**Label(s):** 8

**14.4 Packaging group**

III

**14.5 Environmental hazards**

**Environmentally hazardous:**

Yes

**Marine pollutant:**

Yes

**14.6 Special precautions for user**

None known.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:**

The product is not transported in bulk tankers.

**Other relevant information:**

**ADR**

**Classification code:**

C9

**Tunnel restriction code:**

E

**Hazard identification number:**

80

**IMO/IMDG**

**EmS:**

F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

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## SECTION 15: Regulatory information

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

#### EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EU) No 528/2012 on biocidal products
- Regulation (EC) No. 648/2004 - Detergents regulation

#### Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):

Not applicable.

#### Ingredients according to EC Detergents Regulation 648/2004

##### non-ionic surfactants, soap disinfectants, perfumes

<5%

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

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## SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

#### Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No

1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Full text of the H and EUH phrases mentioned in section 3:**

- H290 - May be corrosive to metals.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H335 - May cause respiratory irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- EUH031 - Contact with acids liberates toxic gas.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.