

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

#### 1.1. Product identifier

Product form : Mixture  
 Trade name : ACE Lemon  
 Product code : PA00209478 / 91298500  
 Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Intended for general public  
 Main use category : Consumer uses: Private households (= general public = consumers)  
 Function or use category : Washing and cleaning products (including solvent based products)

##### 1.2.2. Uses advised against

No additional information available

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

Fater S.p.a. Via Alessandro Volta, 10 Pescara cap 65129.  
 Fater Central Europe: Calea Floresca 175, Cladirea Floresca Tower at 3b sector 1 – BUCARESTI CP 014459 ROMANIA

##### SE

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##### MNT

VASO CVIJOVIĆ, Cetinjski put bb, 81000 Podgorica, Crna Gora  
 800190320 SERBIAN NUMBER

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#### 1.4. Emergency telephone number

Emergency number : SE +381 (0) 11 3608 440

Emergency number : ~~SE +381~~ (0) 11 3608 440

### SECTION 2: Hazards identification

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

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

Met. Corr. 1 H290  
 Skin Irrit. 2 H315  
 Eye Irrit. 2 H319  
 Aquatic Acute 1 H400  
 Aquatic Chronic 2 H411

Full text of hazard classes and H-statements : see section 16

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

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Hazard statements (CLP) :

H290 - May be corrosive to metals  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H410 - Very toxic to aquatic life with long lasting effects

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Precautionary statements (CLP)	: P102 - Keep out of reach of children P234 - Keep only in original container P302+P352 - IF ON SKIN: Wash with plenty of Water P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor P101 - If medical advice is needed, have product container or label at hand P501 - Dispose of contents/container to an appropriate local waste system
EUH-statements	: EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine)

### 2.3. Other hazards

Other hazards not contributing to the classification : No presence of PBT and vPvB ingredients.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium Hypochlorite	(CAS No) 7681-52-9 (EC No) 231-668-3 (REACH-no) 01-2119488154-34	1 - 5	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Sodium Carbonate	(CAS No) 497-19-8 (EC No) 207-838-8 (EC Index No) 011-005-00-2 (REACH-no) 01-2119485498-19	1 - 5	Eye Irrit. 2, H319
Sodium Hydroxide	(CAS No) 1310-73-2 (EC No) 215-185-5 (EC Index No) 011-002-00-6 (REACH-no) 01-2119457892-27	< 1	Met. Corr. 1, H290 Skin Corr. 1A, H314

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of Water. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Discontinue use of product.
First-aid measures after eye contact	: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/effects after inhalation	: Coughing. sneezing.
Symptoms/effects after skin contact	: Redness. Swelling. dryness. Itching.
Symptoms/effects after eye contact	: Severe pain. Redness. Swelling. Blurred vision.
Symptoms/effects after ingestion	: Oral mucosal or gastro-intestinal irritation. Nausea. Vomiting. Excessive secretion. Diarrhea.

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

Refer to section 4.1.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

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

Fire hazard	: No fire hazard. Non combustible.
Explosion hazard	: Product is not explosive.
Reactivity	: Reacts with (some) acids/bases: release of (highly) toxic gases/vapours. If the product is involved in a fire, it can release toxic chlorine gases.

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### 5.3. Advice for firefighters

Firefighting instructions : No specific firefighting instructions required.  
Protection during firefighting : In case of inadequate ventilation wear respiratory protection.

## SECTION 6: Accidental release measures

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

General measures : Do not bring in contact with acids. Do not use metal containers.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves and eye/face protection.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable gloves and eye/face protection.

### 6.2. Environmental precautions

Consumer products ending up down the drain after use. Prevent spreading in sewers. Prevent soil and water pollution.

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

For containment : Scoop absorbed substance into closing containers. Do not use metal containers.  
Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Large spills: contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.  
Other information : Do not bring in contact with acids.

### 6.4. Reference to other sections

Refer to Sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes. Avoid contact with skin. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product.

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

Storage conditions : Store in original container. Refer to section 10.  
Incompatible products : Refer to section 10.  
Incompatible materials : metals. acids. Reacts with (some) acids: release of (highly) toxic gases/vapours (chlorine). May be corrosive to metals.  
Prohibitions on mixed storage : Keep only in the original container in a cool, well-ventilated place away from (strong) acids.  
Storage area : Store in a cool area. Store in a dry area.

### 7.3. Specific end use(s)

Refer to section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

No additional information available

#### 8.1.2. Monitoring procedures: DNELS, PNECS, OEL

<b>Sodium Carbonate (497-19-8)</b>	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	10 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - local effects, inhalation	10 mg/m <sup>3</sup>
<b>Sodium Hydroxide (1310-73-2)</b>	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	1 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	1 mg/m <sup>3</sup>
<b>Sodium Hypochlorite (7681-52-9)</b>	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	3.1 mg/m <sup>3</sup>
Acute - local effects, inhalation	3.1 mg/m <sup>3</sup>
Long-term - systemic effects, inhalation	1.55 mg/m <sup>3</sup>

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Sodium Hypochlorite (7681-52-9)	
Long-term - local effects, inhalation	1.55 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	3.1 mg/m <sup>3</sup>
Acute - local effects, inhalation	3.1 mg/m <sup>3</sup>
Long-term - systemic effects, oral	0.26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.55 mg/m <sup>3</sup>
Long-term - local effects, inhalation	1.55 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	0.00021 mg/l
PNEC aqua (marine water)	0.00042 mg/l
PNEC aqua (intermittent, freshwater)	0.00026 mg/l
PNEC (STP)	
PNEC sewage treatment plant	4.69 mg/l

### 8.2. Exposure controls

8.2.1. Appropriate engineering controls : No additional information available

8.2.2. Personal protective equipment

Protective personal equipment only required in case of professional use or for large packs (not for household packs). For consumer use please follow recommendation as indicated on the label of the product.

Hand protection : Wear suitable gloves.

Eye protection : Wear eye/face protection.

Skin and body protection : Wear suitable gloves.

Respiratory protection : Not applicable.

Thermal hazard protection : Not applicable.

8.2.3. Environmental exposure controls

Prevent that the undiluted product reaches surface waters.

## SECTION 9: Physical and chemical properties

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

Property	Value	Unit	Test method/Notes
Appearance	Liquid.		
Physical state	Liquid		
Colour	Coloured.		
Odour	pleasant (perfume).		
Odour threshold		ppm	Perceived odor at typical use conditions
pH	> 13		
Melting point		°C	Not available. This property is not relevant for the safety and classification of this product
Freezing point			Not available. This property is not relevant for the safety and classification of this product
Boiling point	No data available		
Flash point	No data available		
Relative evaporation rate (butylacetate=1)	No data available		
Flammability (solid, gas)			Not applicable. This property is not relevant for liquid product forms
Explosive limits		g/m <sup>3</sup>	Not available. This property is not relevant for the safety and classification of this product
Vapour pressure			Not available. This property is not relevant for the safety and classification of this product
Relative density	≈ 1.07		

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Property	Value	Unit	Test method/Notes
Solubility	Soluble in water.		
Log Pow	No data available		
Auto-ignition temperature			Not available. This property is not relevant for the safety and classification of this product
Decomposition temperature		°C	Not available. This property is not relevant for the safety and classification of this product
Viscosity	≈ 1	cP	
Explosive properties	Not applicable. This product is not classified as explosive as it does not contain any substances which possesses explosive properties CLP (Art 14 (2)).		
Oxidising properties	Not applicable. This product is not classified as oxidizing as it does not contain any substances which possesses oxidizing properties CLP (Art 14 (2)).		

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with (some) acids/bases: release of (highly) toxic gases/vapours. If the product is involved in a fire, it can release toxic chlorine gases.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

### 10.4. Conditions to avoid

Refer to Section 10 on Incompatible Materials.

### 10.5. Incompatible materials

metals. acids. Reacts with (some) acids: release of (highly) toxic gases/vapours (chlorine). May be corrosive to metals.

### 10.6. Hazardous decomposition products

chlorine.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1. Mixture

ACE Lemon	
Acute toxicity	Not classified (*)
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Not classified (*)
Germ cell mutagenicity	Not classified (*)
Carcinogenicity	Not classified (*)
Reproductive toxicity	Not classified (*)
Specific target organ toxicity (single exposure)	Not classified (*)
Specific target organ toxicity (repeated exposure)	Not classified (*)
Aspiration hazard	Not classified (*)

(\*) Based upon available data of the substances and/or the product, product classification criteria are not met. See Section 2 and Section 16 for applicable hazard classification and classification procedure, respectively.

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### 11.1.2. Substances in the mixture

Acute toxicity:

<b>Sodium Carbonate (497-19-8)</b>	
LD50 oral rat	2800 mg/kg bw
LD50 dermal rabbit	> 2000 mg/kg bw (US EPA 16 CFR 1500.40)
<b>Sodium Hypochlorite (7681-52-9)</b>	
LD50 dermal rabbit	> 20000 mg/kg bw (//OECD 402)

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<b>Sodium Carbonate (497-19-8)</b>	
LC50 fishes 1	300 mg/l <i>Lepomis macrochirus</i> ; 96 h
EC50 Daphnia 1	200 mg/l <i>Ceriodaphnia</i> sp.; 48 h
<b>Sodium Hydroxide (1310-73-2)</b>	
EC50 Daphnia 1	40.4 mg/l <i>Ceriodaphnia</i> sp.; 48 h
<b>Sodium Hypochlorite (7681-52-9)</b>	
LC50 fishes 1	0.032 mg/l Coho salmon; 96 h
LC50 other aquatic organisms 1	77.1 mg/l OECD 209; 3 h
EC50 Daphnia 1	0.035 mg/l OECD 202; <i>Ceriodaphnia dubia</i> ; 48 h
ErC50 (algae)	0.0365 mg/l OECD 201; <i>Pseudokirchneriella subcapitata</i> ; 72 h
NOEC (chronic)	41.1 mg/l OECD 209; 3 h
NOEC chronic fish	0.04 mg/l <i>Menidia peninsulae</i> ; 28 d
NOEC chronic crustacea	0.007 mg/l
NOEC chronic algae	0.0054 mg/l OECD 201; <i>Pseudokirchneriella subcapitata</i> ; 3 d

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

<b>Sodium Carbonate (497-19-8)</b>	
Bioaccumulative potential	Not measured.
<b>Sodium Hydroxide (1310-73-2)</b>	
Bioaccumulative potential	Not measured.
<b>Sodium Hypochlorite (7681-52-9)</b>	
Log Pow	-342
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4).

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

<b>ACE Lemon</b>	
Results of PBT assessment	No presence of PBT and vPvB ingredients
<b>Component</b>	
Sodium Carbonate (497-19-8)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
Sodium Hydroxide (1310-73-2)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
Sodium Hypochlorite (7681-52-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Other information : Toxic to aquatic organisms.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

13.1.1. Regional legislation (waste) : Disposal must be done according to official regulations.

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- 13.1.2 Disposal recommendations : The waste codes/waste designations below are in accordance with EWC. Waste must be delivered to an approved waste disposal company. The waste is to be kept separate from other types of waste until its disposal. Do not throw waste product into the sewer. Where possible recycling is preferred to disposal or incineration. For handling waste, see measures described in section 7. Empty, uncleaned packaging need the same disposal considerations as filled packaging.
- 13.1.3 EURAL Waste code product : 20 01 29\* - detergents containing dangerous substances  
15 01 10\* - packaging containing residues of or contaminated by dangerous substances

### SECTION 14: Transport information

#### 14.1. UN number

- UN-No : 1791  
UN-No. (ICAO) : 1791

#### 14.2. UN proper shipping name

- Proper Shipping Name : HYPOCHLORITE SOLUTION  
Transport document description (ADR) : UN 1791 HYPOCHLORITE SOLUTION (Sodium Hypochlorite), 8, III, (E), ENVIRONMENTALLY HAZARDOUS

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


- Class (UN) : 8  
Class (ICAO) : 8 - Corrosive substances  
Danger labels (UN) : 8



#### 14.4. Packing group

- Packing group (UN) : III

#### 14.5. Environmental hazards

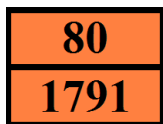
- Dangerous for the environment :   
Marine pollutant

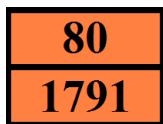


- Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

- Transport regulations (RID) : Subject to the provisions  
State during transport (ADR-RID) : as liquid  
Hazard identification number (Kemler No.) : 80  
Classification code (UN) : C9  
Orange plates : 



- Special provisions (ADR) : 521  
Transport category (ADR) : 3  
Tunnel restriction code : E  
Limited quantities (ADR) : 5l  
Excepted quantities (ADR) : E1

##### 14.6.2. Transport by sea

- Transport regulations (IMDG) : Subject to the provisions  
EmS-No. (1) : F-A  
EmS-No. (2) : S-B

##### 14.6.3. Air transport

- Transport regulations (IATA) : Subject to the provisions

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

- Not applicable

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### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

CESIO recommendations

: 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.

Other information, restriction and prohibition regulations

: Classification according to Regulation (EC) No. 1272/2008 [CLP]. Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. Regulation (EC) No. 648/2004 of 31 March 2004 on detergents.

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

#### 16.1. Indication of changes

Indication of changes : Not applicable

#### 16.2. Abbreviations and acronyms

LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. PNEC(s): Predicted No Effect Concentration(s). vPvB: Very Persistent and Very Bioaccumulative. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. DNEL: Derived-No Effect Level. OEL: Occupational Exposure Limit. AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ATE: Acute Toxicity Estimate.

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]	classification procedure
Met. Corr. 1	On basis of test data
Skin Irrit. 2	Expert judgment Weight of evidence
Eye Irrit. 2	Weight of evidence Expert judgment
Aquatic Acute 1	Calculation method
Aquatic Chronic 2	Calculation method

#### 16.4. Relevant R-phrases and/or H-statements (number and full text) for mixture and substances

Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects



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EUH206

Warning! Do not use together with other products. May release dangerous gases (chlorine)

### 16.5. Training advice

Normal use of this product shall imply use in accordance with the instructions on the packaging.

### 16.6. Further information

Salts listed in Section 3 without a REACH Registration number are exempt, based on Annex V

SDS CLP

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