

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code:SL06230901

Product nameCHANTECLAIR PIATTI LIME e ZENZERO

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

Intended use

Liquid dish detergent

Identified Uses	Industrial	Professional	Consumer
Liquid detergent for hand dishwashing	-	-	✓

Uses Advised Against

Don't use for different uses from the recommended one

1.3. Details of the supplier of the safety data sheet

Name

Full address

District and Country

RS S.R.L.

Via Monte Santo, 37

20831 Seregno (MB)

Italia

Tel. +39 0362 2661

Fax +39 0362 266286

e-mail address of the competent person responsible for the Safety Data Sheet

sds@gruppodesa.com

1.4. Emergency telephone number

For urgent inquiries refer to

+370 (5) 2362052 (free of charge, available 24 hours a day, seven days a week).

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2

H319

Causes serious eye irritation.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:	Warning
Hazard statements:	
H319	Causes serious eye irritation.
Precautionary statements:	
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear eye protection / face protection.
P337+P313	If eye irritation persists: Get medical advice / attention.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts		
INDEX -	10 ≤ x < 12,5	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 270-115-0		LD50 Oral: 1080 mg/kg
CAS 68411-30-3		
REACH Reg. *		
Alcohols, C12-14, ethoxylated, sulfates, sodium salts		
INDEX -	3 ≤ x < 5	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 500-234-8		Eye Dam. 1 H318: ≥ 10%, Eye Irrit. 2 H319: ≥ 5% - < 10%
CAS 68891-38-3		
REACH Reg. 01-2119488639-16-0024		

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts		
INDEX -	$1 \leq x < 3$	Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC 931-333-8		Eye Dam. 1 H318: $\geq 10,01\%$, Eye Irrit. 2 H319: $\geq 4,01\%$ - $< 10\%$
CAS 61789-40-0		
REACH Reg. 01-2119489410-39-0001		
Sodium hydroxide		
INDEX 011-002-00-6	$0 < x < 0,01$	Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318
EC 215-185-5		Skin Corr. 1 H314: $\geq 5\%$, Skin Corr. 1B H314: $\geq 2\%$ - $< 5\%$, Skin Corr. 1C H314: $\geq 2\%$ - $< 5\%$, Skin Irrit. 2 H315: $\geq 0,5\%$ - $< 2\%$, Eye Dam. 1 H318: $\geq 2\%$, Eye Irrit. 2 H319: $\geq 0,5\%$ - $< 2\%$
CAS 1310-73-2		
REACH Reg. 01-2119457892-27		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
This product is an ionic mixture.
For the purpose of classification and labelling, the potentially hazardous salts present in the mixture based on calculation are those listed above.
Not assigned a registration number as it is exempt from REACH registration according to Annex V (point 4) of Regulation (EC) No 1907/2006 – REACH.

Sodium dodecylbenzensulfonate
This product is an ionic mixture.
For the purpose of classification and labelling, the potentially hazardous salts present in the mixture based on calculation are those listed above.
Not assigned a registration number as it is exempt from REACH registration according to Annex V (point 4) of Regulation (EC) No 1907/2006 – REACH.

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

RS S.R.L.	Revision nr. 1
	Dated 15/07/2025
	First compilation
	Printed on 30/09/2025
SL06230901 - CHANTECLAIR PIATTI LIME e ZENZERO	
Page n. 4/15	
Safety Data Sheet	According to Annex II to REACH - Regulation (EU) 2020/878

If eye irritation persists: Get medical advice / attention.
For both acute and delayed symptoms, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

For specific uses see chapter 1.2.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
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Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Predicted no-effect concentration - PNEC								
Normal value in fresh water		0,268			mg/l			
Normal value in marine water		0,0268			mg/l			
Normal value for fresh water sediment		8,1			mg/kg			

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			NPI	0,85 mg/kg				
Inhalation			3 mg/m3	3 mg/m3			12 mg/m3	12 mg/m3
Skin			NPI	85 mg/kg			NPI	170 mg/kg

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Predicted no-effect concentration - PNEC								
Normal value in fresh water		0,24			mg/l			
Normal value in marine water		0,024			mg/l			
Normal value for fresh water sediment		5,45			mg/kg			
Normal value for marine water sediment		0,545			mg/kg			

Health - Derived no-effect level - DNEL / DMEL								
Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	15 mg/kg				
Inhalation			VND	3 mg/m3			VND	175 mg/m3
Skin			VND	85 mg/kg			VND	2750 mg/kg

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,013	mg/l			
Normal value in marine water				0,0013	mg/l			
Normal value for fresh water sediment				14,8	mg/kg			
Normal value for marine water sediment				1,48	mg/kg			
Normal value of STP microorganisms				3000	mg/l			
Normal value for the terrestrial compartment				0,8	mg/kg			

Health - Derived no-effect level - DNEL / DMEL								
Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				7,5 mg/kg bw/d				
Inhalation				13,04 mg/m3				44 mg/m3
Skin				7,5 mg/kg bw/d				12,5 mg/kg bw/d

Sodium hydroxide						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	2		2 (C)		Note: URT, eye, and skin irr

Health - Derived no-effect level - DNEL / DMEL								
Effects on consumers				Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			1 mg/m3				1 mg/m3	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

For normal use:
Recommended NITRILE, LATEX or similar gloves (waterproof) Minimum thickness 0.1 mm, which can vary according to the conditions of use, but such as to guarantee a minimum protection of 1 hour.
For prolonged handling of the product:
Recommended category III work gloves (ref. standard EN 374).
Minimum permeation time: 14 minutes (METHANOL 99%), Maximum permeation time: 480 minutes (SODIUM HYDROXIDE 50%).

SKIN PROTECTION

For normal use:
No special protections are required for normal use.
For prolonged handling of the product:
No special protections are required for normal use.

EYE PROTECTION

For normal use:
Use protective goggles.
For prolonged handling of the product:
Use protective goggles with side flaps (EN 166)

RESPIRATORY PROTECTION

For normal use:
No special protections are required for normal use.
For prolonged handling of the product:
No special protections are required for prolonged use.

ENVIRONMENTAL EXPOSURE CONTROLS

See also section 6 and section 13.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	viscous liquid	Temperature: 25 °C
Colour	yellow	
Odour	characteristic	
Melting point / freezing point	not available	Reason for missing data: Not tested. Does not impact the safety or classification of the product.
Initial boiling point	not available	Reason for missing data: Not tested. Does not impact the safety or classification of the product.
Flammability	not available	Reason for missing data:Not relevant (mixture of non-flammable substances).
Lower explosive limit	not available	Reason for missing data:Not relevant (mixture of non-explosive substances)
Upper explosive limit	not available	Reason for missing data:Not relevant (mixture of non-explosive substances)
Flash point	not available	Reason for missing data:Not relevant (mixture of non-flammable substances).
Auto-ignition temperature	not available	Reason for missing data:Not self-igniting
Decomposition temperature	not available	Reason for missing data: Not tested. Does not impact the safety or classification of the product.
Self-accelerating decomposition temperature (SADT)	not available	Reason for missing data: Not tested. Does not impact the safety or classification of the product.
pH	6,5-7.5	Concentration: 100 %

Kinematic viscosity	not available	Temperature: 25 °C Reason for missing data: Not tested. Does not impact the safety or classification of the product.
Dynamic viscosity	1200-1700 mPas.s	Temperature: 25 °C
Solubility	Soluble/Miscible in water	
Dissolution rate	not available	Reason for missing data: Not tested. Does not impact the safety or classification of the product.
Partition coefficient: n-octanol/water	not available	Reason for missing data:Not applicable for the mixture
Dispersion stability	not available	Reason for missing data: Not tested. Does not impact the safety or classification of the product.
Vapour pressure	not available	Reason for missing data: Not tested. Does not impact the safety or classification of the product.
Density and/or relative density	1,028-1,034	Temperature: 25 °C
Relative vapour density	not available	Reason for missing data: Not tested. Does not impact the safety or classification of the product.
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Explosive properties	not available	Reason for missing data:Not relevant (mixture of non-explosive substances)
Oxidising properties	not available	Reason for missing data: Not applicable (mixture of non-oxidizing substances)

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

In normal use and storage conditions, no dangerous reactions are predictable.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

No one in particular.

10.6. Hazardous decomposition products

None under normal conditions of use.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	
LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	1080 mg/kg Rat

Alcoli C12-14, sali di sodio solfatati (1-2,5 EO) etossilati	
LD50 (Dermal):	> 2000 mg/kg rat
LD50 (Oral):	4100 mg/kg rat

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	
LD50 (Dermal):	> 2000 mg/kg
LD50 (Oral):	2335 mg/kg

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	
LC50 - for Fish	1,67 mg/l/96h Fish, Lepomis macrochirus
EC50 - for Crustacea	2,9 mg/l/48h Daphnia magna
EC10 for Crustacea	1,69 mg/l/48h Invertebrati, Brachionus calyciflorus
Chronic NOEC for Fish	1 mg/l Pesci, Lepomis macrochirus. Duration: 28 giorni
Chronic NOEC for Algae / Aquatic Plants	> 4 mg/l Elodea canadensis. Duration: 28 giorni
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	
LC50 - for Fish	7,1 mg/l/96h Fish, Danio rerio
EC50 - for Crustacea	7,2 mg/l/48h Invertebrates, Daphnia magna
Sodium hydroxide	
LC50 - for Fish	35 mg/l/96h

EC50 - for Crustacea 40,4 mg/l/48h ceriodaphnia

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

LC50 - for Fish 1,11 mg/l/96h
EC50 - for Crustacea 1,9 mg/l/48h
EC50 - for Algae / Aquatic Plants > 1,5 mg/l/72h
Chronic NOEC for Fish 0,135 mg/l
Chronic NOEC for Crustacea 0,32 mg/l
Chronic NOEC for Algae / Aquatic Plants 0,3 mg/l

12.2. Persistence and degradability

Sodium hydroxide
Rapidly degradable

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts
Rapidly degradable

The surfactant(s) contained in this formulation is (are) compliant with the biodegradability criteria established by regulation (EC) n. 648/2004 relating to detergents. All supporting data are kept at the disposal of the competent authorities of the Member States and will be provided, at their explicit request or at the request of a manufacturer of the formulation, to the aforementioned authorities.

12.3. Bioaccumulative potential

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts
Partition coefficient: n-octanol/water

4,44 (20°C)

Assessment bioaccumulation potential: Accumulation in organisms is not to be expected. The product has not been tested. The indications are derived from the substances/products contained in the formulation.

12.4. Mobility in soil

Transport evaluation between environmental departments: volatility: not applicable.

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

The product does not contain substances listed in regulation 1005/2009/EC on the substances that reduce the ozone layer.

RS S.R.L.		Revision nr. 1
		Dated 15/07/2025
		First compilation
SL06230901 - CHANTECLAIR PIATTI LIME e ZENZERO		Printed on 30/09/2025
		Page n. 12/15
Safety Data Sheet	According to Annex II to REACH - Regulation (EU) 2020/878	

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40

Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage $\geq$ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

Sodium hydroxide

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Skin Corr. 1	Skin corrosion, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.

- LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
 - ATE: Acute Toxicity Estimate
 - CAS: Chemical Abstract Service Number
 - CE50: Effective concentration (required to induce a 50% effect)
 - CE: Identifier in ESIS (European archive of existing substances)
 - CLP: Regulation (EC) 1272/2008
 - DNEL: Derived No Effect Level
 - EmS: Emergency Schedule
 - GHS: Globally Harmonized System of classification and labeling of chemicals
 - IATA DGR: International Air Transport Association Dangerous Goods Regulation
 - IC50: Immobilization Concentration 50%
 - IMDG: International Maritime Code for dangerous goods
 - IMO: International Maritime Organization
 - INDEX: Identifier in Annex VI of CLP
 - LC50: Lethal Concentration 50%
 - LD50: Lethal dose 50%
 - OEL: Occupational Exposure Level
 - PBT: Persistent, bioaccumulative and toxic
 - PEC: Predicted environmental Concentration
 - PEL: Predicted exposure level
 - PMT: Persistent, mobile and toxic
 - PNEC: Predicted no effect concentration
 - REACH: Regulation (EC) 1907/2006
 - RID: Regulation concerning the international transport of dangerous goods by train
 - TLV: Threshold Limit Value
 - TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
 - TWA: Time-weighted average exposure limit
 - TWA STEL: Short-term exposure limit

RS S.R.L.	Revision nr. 1
	Dated 15/07/2025
	First compilation
	Printed on 30/09/2025
SL06230901 - CHANTECLAIR PIATTI LIME e ZENZERO	
Page n. 15/15	
Safety Data Sheet	
According to Annex II to REACH - Regulation (EU) 2020/878	

- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
 23. Delegated Regulation (UE) 2023/707
 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
 25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
 26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
 27. Delegated Regulation (UE) 2024/2564 (XXII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

The classification of this mixture, with regards to Irritation/Corrosion properties on eyes and skin, has been derived by applying bridging principles (such as dilution, interpolation within a toxicity category or substantially similar mixtures, with or without the expert judgement) with reference to the provisions of Article 9(3) and Article 9(4) of Regulation (EC) No. 1272/2008.