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1. Identification of the substance / preparation and of the company / undertaking

1.1 Identification of the product:

Business name **CANDEGGINA Classica LINDOR**
 Chemical name Sodium hypochlorite, solution Cl active 2.2%
 CAS: 7681-52-9 - EC No: 231-668-3 - Index No: 017-011-00-1 - REACH: 01-2119488154-34

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

Sector of uses: Whiteners and brighteners
 Private households (= general public = consumers)[SU21],
 Public domain (administration, education, entertainment, services, craftsmen)[SU22]
 Uses advised against: Do not use for purposes other than those listed

1.3 Identification of the company:

Producer **NEW FADOR S.r.l.**
 Via M. Calderara 31 - 25018 Montichiari (BS) - Italy
 Tel. +39 030 961243 - Fax +39 030 962500
www.newfador.it - info@newfador.it

1.4 Emergency telephone number:

Tel. + 39 030 961243 (From 8.30 to 17.30 – Monday / Friday)
 At paragraph 16 of this tab indicates the contact details of poison control centers in Italy active 24 hours on 24.

2. Identification of hazard

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

Pictograms:
 GHS05

Codes of class and hazard category:
 Skin Corr. 1B

Codes of hazard:
 H314 - Causes severe skin burns and eye damage.

Corrosive products, causes severe skin burns and eye damage.

2.2 Label elements:

Labelling according to Regulation (EC) No . 1272/2008:

Pictograms , warning codes :
 GHS05 - Danger

Codes of hazard :
 H314 - Causes severe skin burns and eye damage.

Codes for additional hazard statements :
 EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine) .

Precautionary statements :

General
 P101 - If medical advice is needed, have product container or label at hand.
 P102 - Keep out of the reach of children.


Prevention
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Reaction
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ 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 CENTER.

Conservation
 P405 - Store locked up.

Disposal



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P501 - Dispose of contents / container in accordance with local regulations.

Contains: Sodium hypochlorite, 2,2 .2% Chlorine active - Index No. 017-011-00-1

Contains (EC Regulation 648/2004): <5% Whitening chlorine-based

2.3 Other hazards:

The substance / mixture NOT contain PBT / vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

No information on other hazards.

Packaging to be fitted with a safety lock for children.

Packaging to be fitted with a tactile warning.

3. Composition / information on ingredients

3.1 Substance:

Irrelevant.

3.2 Mixture:

Refer to section 16 for the full text hazard statements.

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Sodium hypochlorite	> 1 <= 5%	Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H335; Aquatic Acute 1, H400 10 10	017-011-00-1	7681-52-9	231-668-3	01-2119488154-34

4. First aid measure



4.1 Description of first aid measure:

Inhalation:

Ventilate the area. Immediately remove the patient from the contaminated premises to rest in a well ventilated area.

If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Immediately take off contaminated clothing.

After contact with skin, wash immediately with plenty of water.

Consult a physician immediately.

Direct contact with the eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes; then protect the eyes with dry sterile gauze. Seek immediate medical attention.

Do not use eye drops or ointment of any kind before obtaining an examination or advice from an ophthalmologist.

Ingestion:

Give water with egg white; do not administer bicarbonate.

Do not induce vomiting or emesis. Seek immediate medical attention.

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

Corrosive products, causes severe skin burns and eye damage.

4.3 Indication of any need to consult a doctor immediately and special treatment:

If medical advice is needed, make available to the container or the label of the product.

Immediately call a POISON CENTER.


5. Fire fighting measures



5.1 Extinguishing:

Recommended extinguishing means:

Water, CO2, foam, chemical powders, according to the materials involved in the fire.

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Extinguishing media to avoid:

Water jets. Use water jets only to cool down surfaces of the containers exposed to fire.

5.2 Special hazards arising from the substance or mixture:

Not data available..

5.3 Advice for firefighters:

Use protection for the respiratory tract.

Safety helmet and protective suit.

Water spray may be used to protect the people involved in extinction.

It is also advisable to use self-contained, especially if you work in an enclosed, poorly ventilated and in any case if you employ halogenated extinguishing (fluobrene, Solkane 123, naf etc.).

Cool containers with water spray.

6. Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Move away from the area surrounding the spill or release. Do not smoke.

Wear mask, gloves and protective clothing.

For emergency responders:

Wear mask, gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

Provide adequate ventilation.

Evacuate the danger area and, if necessary, consult an expert.

6.2 Environmental precautions:

Limit leakages with earth or sand.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Dispose of waste in accordance with applicable regulations (Legislative Decree 152/2006 and subsequent amendments).

6.3 Methods and materials for containment and cleaning up:

To contain:

Rapidly recover the product, wear a mask and protective clothing.

Recover the product for re-use if possible, or for elimination. Appropriate, be absorbed by inert material.

Prevent entry into sewers.

For cleaning:

After collection, wash with water the area and materials involved.

Other information:

None in particular.

6.4 Reference to other sections:

Refer to paragraphs 8 and 13 for further information.

7. Storage and handling

7.1 Precautions for safe handling:

Avoid contact and inhalation of vapors.

When using do not eat or drink.

See also paragraph 8.

7.2 Conditions for safe storage, including any incompatibilities:

Keep in original container tightly closed. Do not store in open or unlabeled containers.

Keep the containers in upright position and secure avoiding the possibility of falls or collisions.

Store in a cool place, away from any source of heat and direct exposure of sunlight.

7.3 Specific end uses

Use of the consumer:


Store in a cool, dry place.

Professional uses:

Handle with care.

Store in a dry, ventilated place away from sources of heat.

Keep container tightly closed.

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8. Exposure controls / personal protection



8.1 Control parameters:

No data available on the mixture as a whole.

Related to substances:

sodium hypochlorite:
SODIUM HYPOCHLORITE SOLUTION CL ACTIVE; Nr. CAS: 7681-52-9

Specification: DNEL (GLOB)

Parameter: Systemic effects Short term Inhalation Workers

Value: 3.1 mg / m³

Released:

Specification: DNEL (GLOB)

Parameter: Local effects Short term Inhalation Workers

Value: 3.1 mg / m³

Released:

Specification: DNEL (GLOB)

8.2 Exposure controls:

Appropriate engineering controls:

Use of the consumer:

Open with caution. Tightly close the container immediately and forever.

Adopt appropriate measures of protection.

Professional uses:

Open with caution. Tightly close the container immediately and forever.

Adopt appropriate measures of protection.

Individual protection measures:

a) protection for the eyes / face

During the manipulation of the pure product use safety glasses (goggles) (EN 166).

b) Skin protection

i) Hand Protection

During the manipulation of the pure product use protective gloves resistant to chemicals (EN 374-1/EN374-2/EN374-3).

ii) Other

When handling pure product wear protective clothing to protect the skin (EN 14605)..

c) Respiratory protection

Not needed for normal use.

d) Thermal hazards

No danger to report


Environmental exposure controls:

Use according to good working practices, avoiding disposal in the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical:

Physical and chemical properties	Value	Method of determination
Appearance	Clear liquid	
Odour	characteristic	
Olfactory threshold	not determined	
pH	> 11.5	
Melting point / freezing point	This property is not relevant to the safety and product classification	
Initial boiling point and boiling range	> 100°C	
Flash point	not determined	ASTM D92
Evaporation rate	This property is not relevant to the safety and product classification	
Flammability (solid, gas)	not determined	
Upper / lower flammability or explosive limits	not determined	
Vapour pressure	This property is not relevant to the safety and product classification	

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Vapour density	not determined	
Relative density	1.02 g/ml	
Solubility	in water	
Solubility in water	yes	
Partition coefficient: n-octanol/water	unavailable	
Auto-ignition temperature	This property is not relevant to the safety and product classification	
Decomposition temperature	not determined	
Viscosity	not determined	
Explosive properties	Not classified as explosive, does not contain explosives according to Reg. CLP Art. (14 (2))	
Oxidizing properties	The product is not an oxidizing substance	

9.2 Other information:

No data available.

10. Stability and reactivity

10.1 Reactivity:

Relating to substances:

Sodium hypochlorite
 Risk of violent reaction.
 Risk of explosion.

10.2 Chemical stability:

The product is stable at the recommended storage and handling.

10.3 Possibility of hazardous reactions:

Corrosion in contact with metals.
 Contact with acids liberates toxic gas.
 Oxygen released in thermal decomposition may support combustion.
 Hazardous decomposition products in the event of fire.
 It decomposes when exposed to light.

10.4 Conditions to avoid:

None to report.

10.5 Incompatible materials:

Metals, metal salts, acids, organic materials.

10.6 Hazardous decomposition products:

It decomposes on heating, on contact with acids and for light exposure, developing toxic and corrosive gases containing chlorine.


11. Toxicological information

11.1 Information on toxicological effects:

On the product as toxicology tests were not carried out.

- (A) Acute toxicity: based on available data, the classification criteria are not met.
- (B) corrosion / irritation: Corrosive product: Causes severe skin burns and eye damage.
- (C) serious eye damage / irritation: Corrosive product: Causes severe skin burns and eye damage.
- (D) sensitization of the respiratory tract or skin: Based on available data the classification criteria are not met.
- (E) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (F) carcinogenicity: Based on available data the classification criteria are not met.
- (G) Reproductive toxicity: based on available data, the classification criteria are not met.
- (H) Specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (I) Specific target organ toxicity (STOT) Repeated exposure: based on available data, the classification criteria are not met.
- (J) aspiration hazard: based on available data, the classification criteria are not met.

Relating to substances:

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sodium hypochlorite:

Acute oral toxicity

- LD50, rat, > 1,100 mg / kg (chlorine)

Acute inhalation toxicity

- LC50, 1 h, rat, > 10.5 mg / l (chlorine)

Acute dermal

- LD50, rabbit, > 20,000 mg / kg (chlorine)

Corrosion / irritation

- Rabbit, corrosive effects

Serious eye damage / eye irritation

- Rabbit, Severe eye irritation

Respiratory or skin sensitization

- Guinea pig, Did not cause sensitization on laboratory animals.

Mutagenicity

- In vitro, mutagenic effect uncertain

- In vivo tests did not show mutagenic effects

Carcinogenicity

- Oral, rat, 50 mg / kg, NOAEL

Reproductive toxicity

- Oral, rat, 5 mg / kg, effects on fertility, NOAEL, (Chlorine)

- Oral, rat, 5.7 mg / kg, Developmental toxicity, NOAEL, (Chlorine)

Specific target organ toxicity - single exposure

- Human experience, Remarks: May cause respiratory irritation.

Repeated dose toxicity

- Oral, 90 days, rat, 50 mg / kg, NOAEL

Other data

- Toxic effect, mainly due to the corrosive properties of the product

12. Ecological information

12.1 Toxicity:

The product as no tests were carried out environmental impact in case of accidental release into the environment.

Relating to substances:

sodium hypochlorite:

Fishes, various species, LC50, 96 h, 0.06 mg / l, fresh water

Fish, Menidia pelinsulatae, NOEC, 96 h, 0.04 mg / l, brackish water

Fish, different species, 96 h, 0.032 mg / l, Seawater

Shellfish species, EC50, 48 h, 0.026 mg / l

Crustaceans, Daphnia magna, EC50, 48 h, 0.141 mg / l, fresh water

Use according to good working practices to avoid pollution into the environment.

12.2 Persistence and degradability:

Relating to substances:

sodium hypochlorite:

abiotic degradation:

- Water, photolysis, t 1/2 = 12 min

Result: photolysis

Conditions: pH 8

- Water, photolysis, t 1/2 = 60 min

Result: photolysis

Conditions: pH 5

- Air, indirect photo-oxidation, t 1/2 115 d

Degradation products: Chlorine

- Water, Hydrolysis

Result: Chemical degradation

Degradation products: chlorides

12.3 Bioaccumulative potential:


Relating to substances:

sodium hypochlorite

Not bioaccumulate

12.4 Mobility in soil:

Relating to substances:

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sodium hypochlorite:

- Water / Soil

solubility and mobility

- Soil / sediments, log KOC: 1.12

Very mobile in soils

- Air, Henry constant, 0.076 Pa.m³ / mol, 20 ° C

volatility is not significant.

12.5 Results of PBT and vPvB assessment:

The substance is not considered to be persistent, bioaccumulative or toxic (PBT).

- This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

The substance / mixture NOT contain PBT / vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

12.6 Other adverse effects:

No adverse effects are observed.

Regulation (EC) n. 2006/907 - 2004/648

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

13. Disposal considerations

13.1 Methods of treatment of waste:

Do not reuse empty containers. Dispose of in compliance with the regulations. Any residual product should be disposed of in accordance with regulations addressing authorized companies.

Recover if possible. Send to authorized disposal plants or for incineration under controlled conditions. Operate according to local and national regulations.

14. Transport information

14.1 Regulations concerning the international carriage:

1791

Any exemptions ADR (with label application shown at right) when met the following characteristics:

Combination packaging: Inner packing 5 Liters neck 30 kg

Inner packaging placed in trays with shrink or extensible film: internal packaging 5 liters neck 20 kg



14.2 Shipping name:

SODIUM HYPOCHLORITE SOLUTION

14.3 Classes Transport hazard:

Class: 8

Label: 8

Tunnel restriction code: E

Limited quantity: 5 L

Ems: F-A, S-B

14.4 Packing group:

III



14.5 Environmental hazards:

Product is not dangerous for the environment.

Marine pollutant: No


14.2 Special precautions for user:

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the requirements of the current edition of ADR and applicable national regulations.

The goods must be in original packaging and in any case in packaging made of materials resistant to their content and not likely to generate with this dangerous reactions. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

14.3 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

It is not intended to carry bulk.

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15. Regulatory information

15.1 Safety, health and environmental, safety and legislation specific for the substance or mixture:

Reg 648/2004/EC (detergents), Legislative Decree no. 3/2/1997 n. 52 (Classification, packaging and labeling of dangerous substances). 14/3/2003 Legislative Decree n. 65 (Classification, packaging and labeling of dangerous substances). Leg. 2/2/2002 n. 25 (Risks related to chemical agents at work). Ministerial Decree Labour 26/02/2004 (Occupational exposure limit values); DM 03/04/2007 (Implementation of Directive no. 2006/8/EC). Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) n.790/2009.D.Lgs. September 21, 2005 n. 238 (Seveso Directive Ter).

15.2 Chemical safety assessment:

The supplier did not carry out a chemical safety assessment.

16. Other information

Points modified since the previous version: 2.1 Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 4.2. Most important symptoms and effects, both acute and delayed 8.1. Control parameters, 11.1. Information on toxicological effects, 12.1. Toxicity, 12.2. Persistence and degradability 12.3. Potential for bioaccumulation, 12.4. Mobility in soil 15.1. Laws and regulations on health, safety and environment specific to the substance or mixture.

Description of the H statements set out in paragraph 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 organisms.

Classification made based on the data of all the components of the mixture

Principal legal references:
 Regulation 2008/1272 / EC
 Regulation 2015/830 / EC

Link ECHA (source of information on chemical substances produced or imported in Europe)
<http://echa.europa.eu/it/information-on-chemicals;jsessionid=63968E9F85F91C26F330FF884618CFFF.live1>
 MSDS provided by the customer and on the same raw material

If necessary, it should be noted the list of CENTI ANTIVELINI accredited by the Ministry of Health:

Responsabile	Ospedale	Città	Indirizzo	CAP	Telefono
Marco Marano	CAV "Osp. Pediatrico Bambino Gesù"	Roma	Piazza Sant'Onofrio, 4	00165	06 68593726
Anna Lepore	Az. Osp. Univ. Foggia	Foggia	V.le Luigi Pinto, 1	71122	0881-732326
Gennaro Savoia	Az. Osp. "A. Cardarelli"	Napoli	Via A. Cardarelli, 9	80131	081-7472870
M. Caterina Grassi	CAV Policlinico "Umberto I"	Roma	V.le del Policlinico, 155	00161	06-49978000
Alessandro Barelli	CAV Policlinico "A. Gemelli"	Roma	Largo Agostino Gemelli, 8	00168	06-3054343
Primo Botti	Az. Osp. "Careggi" U.O. Tossicologia Medica	Firenze	Largo Brambilla, 3	50134	055-7947819
Carlo Locatelli	CAV Centro Nazionale di Informazione Tossicologica	Pavia	Via Salvatore Maugeri, 10	27100	0382-24444
Franca Davanzo	Osp. Niguarda Ca' Granda	Milano	Piazza Ospedale Maggiore, 3	20162	02-66101029
M. Luisa Farina	Azienda Ospedaliera Papa Giovanni XXII	Bergamo	Piazza OMS, 1	24127	800883300

This MSDS cancels and replaces any preceding release.