

STOVILMATIC CLORO

Issued on 05/24/2012 - Rel. # 4 on 02/15/2017

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In conformity to Regulation (EU) 2015/830

SECTION1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : STOVILMATIC CLORO
 Trades code : 012A290243

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

Detergent for the automatic washing of dishes
 Sectors of use:
 Professional use[SU22]

Uses advised against
 Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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Produced by
 Allegrini S.p.A.

1.4. Emergency telephone number

Allegrini SpA : Tel. +39 035 4242111 Mon - Fri 8.00 - 17.00 GMT +1

SECTION2. Hazards identification

2.1. Classification of the substance or mixture

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

Pictograms:
 GHS05

Hazard Class and Category Code(s):
 Met. Corr. 1, Skin Corr. 1A

Hazard statement Code(s):
 H290 - May be corrosive to metals.
 H314 - Causes severe skin burns and eye damage.

The product can be corrosive to metals
 Corrosive product: causes severe skin burns and eye damage.

2.2. Label elements

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

Pictogram, Signal Word Code(s):
 GHS05 - Danger

Hazard statement Code(s):



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H290 - May be corrosive to metals.
 H314 - Causes severe skin burns and eye damage.

Supplemental Hazard statement Code(s):
 unavailable

Precautionary statements:
Prevention

P280 - Wear protective gloves/eye protection.

Response

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - 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/doctor.

Disposal

P501 - Dispose of contents/container in accordance to local regulation.

Contains: Potassium Hydroxide (*), Sodium Hypochlorite (% Cl active) (*)

Contains (Reg.EC 648/2004): < 5% chlorine-based bleaching agents, polycarboxylates, phosphonates

2.3. Other hazards

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

The utilization of this chemical agent cause the obligation of "Risks Evaluation" from employer according to dispositions of Dlgs. April 9th 2008 no. 81. Workers exposed to this chemical agent do not have to be subjected to sanitary supervision if the results of risks evaluation show that, according to typology and quantity of chemical agent and according to method and frequency of exposure to that agent, we only have "moderate risk" for health and safety of workers and that measures foreseen by the Dlgs. are sufficient to reduce the risk.

SECTION3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements.

NOTE: SUBSTANCES MARKED WITH (*) HAVE SPECIFIC LIMITS

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Potassium Hydroxide (*)	> 10 <= 20%	Met. Corr. 1, H290; Acute Tox. 4, H302; Skin Corr. 1A, H314	019-002-00-8	1310-58-3	215-181-3	01-2119487 136-33
2-phosphonobutane-1,2,4-tricarboxylic acid	> 1 <= 5%	Met. Corr. 1, H290; Eye Irrit. 2, H319	n.d.	37971-36-1	253-733-5	01-2119436 643-39
Potassium Silicate	>= 1 <= 5%	Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H335	n.d.	1312-76-1	215-199-1	01-2119456 888-17
Sodium Hypochlorite (% Cl active) (*)	> 1 <= 5%	Skin Corr. 1B, H314; Aquatic Acute 1,	017-011-00-1	7681-52-9	231-668-3	01-2119488 154-34

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Substance	Concentration	Classification	Index	CAS	EINECS	REACH
		H400 Acute toxicity M-factor = 10 Chronic toxicity M-factor = 10				

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek for medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing immediately off.
In case of contact with skin, wash immediately with water.
Consult a physician immediately

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately.
Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Drink water with egg white; do not give bicarbonate.
Absolutely do not induce vomiting or emesis. Seek for medical advice immediately.

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

No data available.

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

Immediately call a POISON CENTER/doctor.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

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

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus
Safety helmet and full protective suit.
The spray water can be used to protect the people involved in the extinction
You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)
Keep containers cool with water spray

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.

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

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

While working do not eat or drink.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

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

Keep containers upright and safe by avoiding the possibility of falls or collisions.

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

7.3. Specific end use(s)

Professional use:

Handle with care. Store in a cool place, away from sources of heat and direct exposure of sunlight. Keep in original container closed tightly.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

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Potassium Hydroxide (*):

TLV/TWA : 2 mg/m³

TLV/STEL : 2 mg/m³ , 0.87 ppm

DNEL

Local effects Long term Workers inhalation = 1

2-phosphonobutane-1,2,4-tricarboxylic acid

DNEL

Systemic effects Long term Workers inhalation = 15 (mg/m³)

Systemic effects Long term Consumers inhalation = 3,7 (mg/m³)

Systemic effects Short term Consumers dermal = 2,1 (mg/kg bw/day)

Systemic effects Short term Consumers oral = 2,1 (mg/kg bw/day)

Local effects Long term Workers inhalation = 158

Local effects Long term Consumers inhalation = 79 (mg/m³)

Local effects Short term Consumers dermal = 40 (mg/kg bw/day)

Local effects Short term Consumers oral = 65 (mg/kg bw/day)

PNEC

Sweet water = 3,33 (mg/l)

sediment Sweet water = 1,47 (mg/kg/sediment)

Sea water = 0,33 (mg/l)

intermittent emissions = 10,42 (mg/l)

STP = 50,4 (mg/l)

ground = 0,491 (mg/kg ground)

Sodium Hypochlorite (% Cl active) (*)

DNEL

Systemic effects Long term Workers inhalation = 1,55 (mg/m³)

Systemic effects Long term Consumers inhalation = 1,55 (mg/m³)

Systemic effects Long term Consumers oral = 0,26 (mg/kg bw/day)

Systemic effects Short term Workers inhalation = 3,1 (mg/m³)

Systemic effects Short term Consumers inhalation = 3,1 (mg/m³)

Local effects Long term Workers inhalation = 1,55

Local effects Short term Workers inhalation = 3,1 (mg/m³)

Local effects Short term Consumers inhalation = 3,1 (mg/m³)

PNEC

Sweet water = 0,00021 (mg/l)

Sea water = 0,000042 (mg/l)

intermittent emissions = 0,00026 (mg/l)

STP = 0,03 (mg/l)

8.2. Exposure controls

Appropriate engineering controls:

Professional use:

No specific control provided.

Individual protection measures:



(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hands protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

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Wear normal work clothing.

(c) Respiratory protection
Not needed for normal use.

(d) Thermal hazards
No hazard to report

Environmental exposure controls:

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	clear light yellow liquid	
Odour	typical of chlorine	
Odour threshold	unavailable	
pH	> 13	
Melting point/freezing point	< 0°C	
Initial boiling point and boiling range	approx. 100°C	
Flash point	non flammable	
Evaporation rate	unavailable	
Flammability (solid, gas)	non flammable	
Upper/lower flammability or explosive limits	non flammable	
Vapour pressure	unavailable	
Vapour density	unavailable	
Relative density	1.160 g/ml	
Solubility	in water	
Water solubility	complete	
Partition coefficient: n-octanol/water	unavailable	
Auto-ignition temperature	unavailable	
Decomposition temperature	unavailable	
Viscosity	unavailable	
Explosive properties	not explosive	
Oxidising properties	oxidizing	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

Related to contained substances:

Potassium Hydroxide (*)
Exothermic reaction with water.

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Reaction with acids.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

Aluminum and light alloys.

10.6. Hazardous decomposition products

It does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = 2.757,8 mg/kg

ATE(mix) dermal = n.d.

ATE(mix) inhal = n.d.

- (a) acute toxicity: based on available data, the classification criteria are not satisfied.
- (b) skin 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) respiratory or skin sensitization: based on available data, the classification criteria are not satisfied.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not satisfied.
- (f) carcinogenicity: based on available data, the classification criteria are not satisfied.
- (g) reproductive toxicity: based on available data, the classification criteria are not satisfied.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not satisfied.
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not satisfied.
- (j) aspiration hazard: based on available data, the classification criteria are not satisfied.

Related to contained substances:

Potassium Hydroxide (*):

LD50 (rat) Oral (mg/kg body weight) = 333

2-phosphonobutane-1,2,4-tricarboxylic acid:

LD50 (rat) Oral (mg/kg body weight) = 6500

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 4000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 1979

Potassium Silicate:

LD50 (rat) Oral (mg/kg body weight) = 5000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 2,06

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Sodium Hypochlorite (% Cl active) (*):
 LD50 (rat) Oral (mg/kg body weight) = 1100
 LD50 Dermal (rat or rabbit) (mg/kg body weight) = 20000

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Potassium Hydroxide (*):
 LC50 (fish) : 80 mg/l (96h)

2-phosphonobutane-1,2,4-tricarboxylic acid:
 LC50 (fish): > 1042 mg/l (96h)
 EC50 (daphnia): > 1071 mg/l (48h)
 EC50 (algae): > 1081 mg/l (72h)
 EC50 (microorganisms): > 1000 mg/l (3h)

Potassium Silicate:
 LC50 (fish): 146 mg/l (48h)
 EC50 (daphnia): > 146 mg/l (24h)
 EC50 (algae): 207 mg/l (72h)

Sodium Hypochlorite (% Cl active) (*):
 LD50 (fish): > 0.032 mg/l (96h)
 EC50 (daphnia): > 0.141 mg/l (48h)
 EC50 (algae): > 0.018 mg/l (72h)
 EC50 (microorganisms): > 3 mg/l (3h)
 Acute toxicity M-factor = 10
 Chronic toxicity M-factor = 10

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

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

Surfactants contained in this formula are in compliance with biodegradability parameters established by regulation EC 648/2004 related to detergents.

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All supporting information are on hand of authorities of member countries and will be supplied to above mentioned authorities according to their explicit request or following producer's request.

SECTION13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION14. Transport information

14.1. UN number

ADR/RID/IMDG/ICAO-IATA: 1719

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 1 L per package 30 Kg

Inner packagings placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg



14.2. UN proper shipping name

ADR/RID/IMDG: LIQUIDO ALCALINO CAUSTICO N.A.S. (Ipoclorito di sodio - Idrossido di potassio)

ICAO-IATA: CAUSTIC ALKALI LIQUID, N.O.S. (Sodium Hypochlorite, Potassium Hydroxide)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 8

ADR/RID/IMDG/ICAO-IATA: Label : 8

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 1 L

IMDG - EmS : F-A, S-B

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: II

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : Not

14.6. Special precautions for user

Transport must be executed through vehicles authorized for transport of dangerous goods, according to regulations of current edition of agreement A.D.R. and to national dispositions applicable.

Transport must be done in original packaging and, however, they must be made of materials unassailable by the content and not able to create dangerous reactions. Staff assigned to loading and unloading of dangerous goods must be well educated to hazards of the product and procedures to be adopted in case of emergency situation.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

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SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

D.Lgs. 3/2/1997 n. 52 (Classification, packaging and labelling of dangerous substances). D.Lgs 14/3/2003 n. 65 (Classification, packaging and labelling of dangerous preparations). D.Lgs. 2/2/2002 n. 25 (Risks derived from chemical agents during work). D.M. Labour 26/02/2004 (Limits for professional exposure). D.M. 03/04/2007 (Fulfillment of EU regulation 2006/8). EU Regulation n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP). Regulation (CE) n.790/2009.D.Lgs. 21/09/2005 n. 238 (Direttiva Seveso Ter).

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information**16.1. Other information**

Description of the hazard statements exposed to point 3

H290 = May be corrosive to metals.

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H319 = Causes serious eye irritation.

H318 = Causes serious eye damage.

H335 = May cause respiratory irritation.

H400 = Very toxic to aquatic life.

Classification based on data of all mixture components

Main regulatory references:

Directive 2001/60/CE

Regulation 2008/1272/CE

Regulation 2010/453/CE

***This data sheet annuls and substitutes each previous version.