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

1.1 Identification of the product:

Commercial name **WC VERDE Disincrostante LINDOR**

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

Acid flush toilets
Sectors of use 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 Details of the supplier of the safety data sheet Company identification:

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

1.4 Telephone number for emergency:

Phone. + 39 030 961243 (from 8.30 to 17.30 – Monday/Friday)
In paragraph 16 of this data sheet are given the contact details of poison control centers in Italy active 24 h on 24.

2. Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) 1272/2008:

Pictograms:
GHS05, GHS07

Hazard Class and Category Code(s):
Skin Corr. 1A, STOT SE 3, Aquatic Chronic 3

Hazard statement Code(s):
H314 - Causes severe skin burns and eye damage.
H412 - Harmful to aquatic life with long lasting effects.

Corrosive product: causes severe skin burns and eye damage.
The product is dangerous to the environment as it is harmful to aquatic life with long lasting effect.

2.2 Label elements:

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

Pictogram, Signal Word Code(s):
GHS05, GHS07 - Danger

Hazard statement Code(s):
H314 - Causes severe skin burns and eye damage.
H412 - Harmful to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):
Not applicable.

Precautionary statements:
General
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
Prevention
P280 - Wear protective gloves/protective clothing/eye protection/face 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.
Storage
P405 - Store locked up.

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

Contains: hydrochloric acid 6.6%

Contains (EC Regulation 648/2004) : < 5 % Cationic surfactants , disinfectants , non-ionic surfactants , amphoteric surfactants, perfumes.

Packaging to be fitted with child-resistant fastenings.
Packaging to be fitted with a tactile warning.
Content of VOC ready to use condition: 0,00 g/l.

2.3 Other hazards:

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

No information on other hazards.

3. Composition / information on ingredients

3.1 Substance:

Irrelevant.

3.2 Mixture:

Refer to paragraph 16 for full text of risk phrases and hazard statements.

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
hydrochloric acid 6.6%	> 10 <= 20%	Skin Corr. 1B, H314; STOT SE 3, H335	017-002-01-X	7647-01-0	231-595-7	01-2119484862-27-XXXX
2,2'-(octadec-9-enylimino)bisethanol	> 1 < 3%	Acute Tox. 4, H302; Skin Corr. 1B, H314; Aquatic Acute 1, H400 10	N.A.	25307-17-9	246-807-3	N.A.
cetrimonium chloride	> 0,1 < 3%	Acute Tox. 4, H302; Acute Tox. 3, H311; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	n.a.	112-02-7	203-928-6	01-2119970558-23

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 room. CALL A PHYSICIAN.
Direct contact with skin (of the pure product):
Take contaminated clothing Immediately off.
In case of contact with skin, wash immediately with plenty of 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 medical advice immediately.

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

Corrosive product: causes severe skin burns and eye damage.
The product is dangerous to the environment as it is harmful to aquatic life with long lasting effects.

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

If medical advice is needed, have product container or label at hand.
Immediately call a POISON CENTER.
Call a POISON CENTER/doctor if you feel unwell.

5. Firefighting measures

5.1 Extinguishing media:

Recommended extinguishing means:
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 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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:
Leave 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. No smoking.
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 materials for containment and cleaning up:

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.
For cleaning up:
After wiping up, 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 more information.

7. Handling and storage

7.1 Precautions for safe handling:

Avoid contact and inhalation of vapours
At work do not eat or drink.
See also paragraph 8 below.

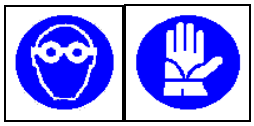
7.2 Conditions for safe storage, including any incompatibilities:

Keep in original container tightly closed. Do not store in open or unlabelled 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 uses:

Private households (= general public = consumers):
Store in cool and dry places.
Public domain (administration, education, entertainment, services, craftsmen):
Handle with care.
Store in ventilated place away from heat sources.
Keep the container tightly closed.

8. Exposure controls / personal protection



8.1 Control parameters:

No data available on the mixture.

Related to contained substances:

hydrochloric acid 6.6%:
STEL 10 ppm, 15 mg/m3
TWA 5 ppm, 8 mg/m3
STEL (15 min) and TWA (8 hours) are indicated on the basis of Indicative Occupational Exposure Limits in Europe
STEL: Short term exposure limit based
TWA: Time Weighted Average (TWA)
Ingredients with limit values must be kept under control in the workplace
7647-01-0 hydrogen chloride (25-50%)
TWA short-term Value: 2 ppm
A4
VL short-term Value: 15 mg/m3, 10 ppm
Long-term value: 8 mg/m3, 5 ppm
DNEL acute inhalation exposure: SCOEL recommends STEL (15 min) of 10 ppm (15 mg/m3).
Exposure to continuous inhalation: SCOEL recommends TWA 8 hours to 15 ppm (8 mg/m3).
PNEC PNEC water (fresh water): 36 g/L
PNEC water (salt water): 36 g/L
PNEC Wasser (gelegentliche Exposition): 45 g/L

2,2'-(octadec-9-enylimino)bisethanol:
DNEL, inhalation, long term, systemic effects, workers: 2,112 mg/m
DNEL, skin, long term, systemic effects, workers: 0.3 mg/kg bw/day
DNEL, inhalation, long term, systemic effects, population: 0.745 mg/m
DNEL, skin, long term, systemic effects, population: 0.214 mg/kg bw/day
DNEL, oral, long term, systemic effects, population: 0.214 mg/kg bw/day
PNEC, fresh water: 0.214 mg/L
PNEC seawater: 0.0214 mg/L
PNEC, water (intermittent): 0.87 mg/L
PNEC (freshwater) sediment: sediment 1,692 mg/kg dw
PNEC sediments (seawater): 0.1692 mg/kg dw sediment
PNEC: 5 mg/kg dw soil

Cloruro di esadeciltrimetilammonio
DNEL , inhalation, long-term , systemic effects , workers : 3.32 mg / m3
DNEL , dermal , long-term , systemic effects , workers : 4.7 mg / kg bw / day
DNEL , inhalation, long-term , systemic effects , population : 0.98 mg / m3
DNEL , dermal , long-term , systemic effects , population : 2.83 mg / kg bw / day
DNEL , oral , long-term , systemic effects , population : 2.83 mg / kg bw / day
PNEC freshwater : 0.00068 / mg / l
PNEC , seawater : 0.000068 mg / l
PNEC , Water (intermittent release) : 0.0008 mg / l
PNEC sewage treatment plant : 0.4 mg / l
PNEC sediment (fresh water) : 9.27 mg / kg sediment dw
PNEC , sediments (sea water) : 0927 mg / kg sediment dw
PNEC soil : 7 mg / kg soil dw

8.2 Exposure controls:

Appropriate engineering controls:
Private households (= general public = consumers):
Open with caution. Close the container immediately after its use.
Adopt the appropriate protective measures.

Public domain (administration, education, entertainment, services, craftsmen):
Open with caution. Close the container immediately after its use.
Adopt the appropriate protective measures.

Individual protection measures:
a) Eyes / face protection
Not needed for normal use.
b) Skin protection
i) Hand protection
Not needed for normal use.
ii) Other
When handling the pure product wear full protective skin clothing (EN 14605).
c) Respiratory protection
Not needed for normal use.
d) Thermal hazards
No hazard to report

Environmental exposure controls:
Cloruro di esadeciltrimetilammonio
Keep away / and / or / for: food, beverages. Cleaning the skin immediately after handling the product.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical and chemical propertise	Value	Method of determination
Physical state	liquid	
Odour	scented	
Odour threshold	not determined	
pH	0,5 - 1,5	
Melting point / freezing point	This property is not relevant to the safety and product classification	
Initial boiling point and boiling range	108,6°C (20.22% HCl : azeotropico)	
Flash point	nonflammable	ASTM D92
Evaporation rate	This property is not relevant to the safety and product classification	
Flammability (solid, gas)	nonflammable	
Upper / lower flammability or explosive limits	nonflammable	
Vapour pressure	This property is not relevant to the safety and product classification	
Relative vapour density	1.27 a 20°C	
Relative density	1,030 g / ml	
Solubility	in water	
Solubility in water	complete	
Partition coefficient: n-octanol/water	not determined	
Self ignition temperature	This property is not relevant to the safety and product classification	
Decomposition temperature	not determined	
Viscosity	1.9 a 15°C	
Explosive properties	Not classified as explosive , does not contain explosives according to Reg . CLP Art . (14 (2))	
Oxidising properties	The product is not an oxidizing substance	

9.2 Other information:

Content of VOC ready to use condition: 0,00 g/l

10. Stability and reactivity

10.1 Reactivity:

Reacts with bases.

10.2 Chemical stability:

No hazardous reactions if handled and stored as directed.

10.3 Possibility of hazardous reactions:

Reacts with strong bases, with formation of toxic gases
Free hydrogen in reaction with metals.

10.4 Conditions to avoid:

Avoid direct sunlight and moisture 19Esposizione. Avoid contact with strong bases.

10.5 Incompatible materials:

Metal alloys and metal surfaces. Strong bases.

10.6 Hazardous decomposition products:

No decomposition if used for the intended uses.

11. Toxicological information

11.1 Information on toxicological effetcts:

No toxicological tests have been performed on the mixture.

(a) acute toxicity: based on available data, the classification criteria are not met.
(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 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: If inhaled the product, causes irritations to the respiratory tract.
(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.

Related to contained substances:

hydrochloric acid 6.6%:
Acute toxicity:
LD/LC50 values that are relevant for classification:
7647-01-0 hydrogen chloride Oral LD50 238-277 mg/kg (rats)
LD50 dermal > 5010 mg/kg (rabbits)
Primary Irritability:
On the skin: irritant to skin and mucous membranes.
Eyes: strongly corrosive.
Rabbits 0.1 ml .10 percent. (Method: OECD 405, GLP) serious eye damage 1a
Serious eye damage: rabbits (OECD 405) 0.1 mL of 10% HCl Lsg. severe irritation, corneal injury that can cause irreversible damage to the eye.
In case of inhalation: HCl Aerosols
LC50 (rat-5 min exposure): 45.6 mg/L (39.5-52.8) equivalent to 31008 ppm (26824-35845)
LC50 (rat-30 min exposure): 8.3 mg/L (7.2-9.7) equivalent to 5666 ppm (4855-6614)
Sensitization: no sensitizing effects known

2,2'-(octadec-9-enylimino)bisethanol
Inhalation: Inhalation of vapour may cause irritation of the nose , throat and respiratory tract .
Skin: May cause serious chemical burns of the skin , slow- healing wounds , considerable formation of scars.
Symptoms may appear with a delay of several hours .
Eyes : Causes burns . Risk of serious eye damage .
Ingestion : Moderate acute toxicity . Risk of burns to the mucous membranes of the mouth and throat .
LD50 . oral rat 1000-2000 mg / kg

cetrimonium chloride:
a) acute Toxic oral, Ld50 ORAL (RAT): > 2,000 mg/kg
b) Irritation skin, eyes: no data available
c) Corrosivit: non-corrosive
d) Sensitization: no sensitizing effects known.
and repeated doses Toxic): no data available
f) Cancerogenicit: data not available
g) Mutagenicit: no data available.

h) reproductive Toxic: no data available

This consideration is based on what is known about the quality of the individual components.

12. Ecological information

12.1 Toxicity:

The product has not been tested for environmental impact in the event of accidental release in the environment.

Related to contained substances:

hydrochloric acid 6.6%:
Type of test/active concentration/evaluation method
Toxicity to fish:
Cuta lepomismacrochirus, freshwater, semi-static: 83d-LC50 = 20.5 mg/l (pH 3.5-3.25)
Toxicity on Daphnia and other organisms invertebrates: EC50/LC50 for freshwater invertebrate organisms: 0.45 mg/L, immobilization test 4-hours
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Algae: Chlorella vulgaris, fresh water: 72 h-ErC50 = 0.76 (pH 4.7) mg/l, 72 h-NOErC = 0.364 mg/l (pH 5.0) (OECD 201)
LC50 EC50/algae: freshwater 0.73 mg/L
Bacteria: EC50 (3:0, fresh water breathing rate): pH 5.0 -5.5
Hinders the respiratory activity of sewage sludge
OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test).

2,2'-(octadec-9-enylimino)bisethanol
LC50 96 hours. fish 0.39 mg / l Ref . Toxid 1279
EC50 48 hours Daphnia 0,1 - 1 mg / l [1]) Ref . 1647 analog Toxid
IC50 72 hours algae from 0.01 to 0.1 mg / l [1]) Ref . 1758 analog Toxid
Very toxic to aquatic organisms .
L (E) C50 (mg / l) = 0.39 10
NOEC (mg / l) = 0.1

cetrimonium chloride:
non-toxic product.

The product is dangerous for the environment as it is toxic for aquatic organisms following acute exposure.

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

12.2 Persistence and degradability:

Related to contained substances:

hydrochloric acid 6.6%:
No data available

2,2'-(octadec-9-enylimino)bisethanol
This surfactant complies with the biodegradability criteria established by Regulation (EC) No 648/2004 on detergents.
Readily biodegradable . > 60 % BOD , 28 days, Closed Bottle Test (OECD 301D) .

Cloruro di esadeciltrimetilammonio
Product can be decomposed through abiotic (eg chemical or photolytic) and organic.

12.3 Bioaccumulative potential:

Related to contained substances:

hydrochloric acid 6.6%:
No data available

2,2'-(octadec-9-enylimino)bisethanol
No data available

Cloruro di esadeciltrimetilammonio
it is unlikely that there is a concentration within organisms.

12.4 Mobility in soil:

Related to contained substances:

hydrochloric acid 6.6%:
No data available

2,2'-(octadec-9-enylimino)bisethanol
No data available

Cloruro di esadeciltrimetilammonio
No data available.

12.5 Results of PBT e vPvB assessment:

The substance / mixture does NOT contains 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
The surfactant (s) contain (s) in this formulation comply (ies) with the criteria set out in Regulation (EC) biodegradability/648/2004 on detergents. All supporting data shall be 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, the above authority.

13. Disposal consideration

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.

14. Transport information

14.1 UN number:

1789
If subject to the following characteristics is ADR exempt:
Combination packagings: per inner packaging 5 L per package 30 Kg
Inner packagings placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg

14.2 UN proper shipping name:

CORROSIVE LIQUID, N.O.S. (hydrochloric acid)

14.3 Transport hazard class(es):

Class : 8
Label : 8
Tunnel restriction code : E
Limited quantities : 5 L
EmS : F-A, S-B

14.4 Packing group:

III

14.5 Environmental hazards:

Product is environmentally hazardous
Marine polluting agent : Not

14.6 Special precautions for user:

The transport must be carried out by authorised vehicles carrying dangerous goods in accordance with the requirements of the current edition of A.D.R Agreement. and the national provisions applicable.
The transport must be carried out in the original packaging and in packages that are made from materials resistant from the content and not likely to generate with this dangerous reactions. Attendants to the loading and unloading of dangerous goods must have received proper training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations.

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

It is not intended to carry bulk.

15. Regulatory information

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

Regulation 648/2004/EC (detergents), Legislative Decree no. 3/2/1997 no. 52 (Classification, packaging and labeling of dangerous substances). Legislative Decree 14.3.2003 n. 65 (Classification, packaging and labeling of dangerous substances). Leg. 02/02/2002 n. 25 (Risks related to chemical agents at work). D.M. Working 26/02/2004 (Occupational exposure limit); DM 04/03/2007 (Implementation of Directive no. 2006/8/EC). Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n.790/2009.D.Lgs. September 21, 2005 n. 238 (Seveso Ter).

15.2 Chemical safety assessment:

No chemical safety assessment was carried out by the supplier.

16. Other information

Modified points from the previous version: 2.2. Label elements, 2.3. Other hazards, 4.3. Indication of any immediate medical attention and special treatment, 7.1. Precautions for safe handling 8.1. Control parameters, 8.2. exposure controls, 10.1. Reactivity, 10.2. chemical stability, 10.3. Possibility of hazardous reactions 10.4. Conditions to avoid 10.5. Incompatible materials 10.6. Hazardous decomposition products 11.1. Information on toxicological effects 12.1. Toxicity, 12.2. Persistence and degradability 12.3. Bioaccumulation potential, 12.4. Mobility in soil 14.1. UN number, 14.2. proper shipping name.

Description of the hazard statements exposed to point 3
H314 = Causes severe skin burns and eye damage.
H335 = May cause respiratory irritation.
H302 = Harmful if swallowed.
H400 = Very toxic to aquatic life.
H311 = Toxic in contact with skin.
H410 = Very toxic to aquatic life with long lasting effects.

Classification based on data of all mixture components

Main normative 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, there are the telephone numbers are active 24 hours 24 some poison control centers:

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.