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

1.1 Product identifier:

Trade name: **DEXAL CANDEGGINA densoattiva**

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

Secotrs of use: 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 Details of the supplier of the safety data sheet:

Supplier: S.I.C. Società italiana chimica S.r.l.
Via Aldo Moro 5 – 25043 Breno (BS) – Italy

Produced by: MORONI S.r.l.
Via Prato della Corte 3 – 00065 Fiano Romano (RM) - Italy
Tel. +39 0765 455945 - Fax +39 0765 455943
www.moronisrl.com - info@moronisrl.com

1.4 Emergency telephone number:

Tel. + 39 0765 455945 (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. Hazard identification

2.1 Classification of the substance or mixture:

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

Pictograms:
GHS05

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

2.2 Label elements:

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

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



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P405 - Store locked up.

Disposal

P501 - Dispose of contents/container in compliance with the regulations.

Contains: Sodium hypochlorite, solution 2,4% Cl active, Index n. 017-011-00-1

Contains (Reg.EC 648/2004): < 5% chlorine-based bleaching agents, anionic surfactants, , amphoteric surfactants, soap, perfumes.

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

Packaging to be fitted with child-resistant fastenings

Packaging to be fitted with a tactile warning

3. Composition / information on ingredients

3.1 Substances:

Irrelevant.

3.2 Mixtures:

Refer to paragraph 16 for full text of hazard statements.

Sostanza	Concentrazione	Classificazione	Index	CAS	EINECS	REACH
sodium hypochlorite, solution ... % Cl active	> 1 <= 2.4%	Skin Corr. 1B, H314; Aquatic Acute 1, H400 10; Aquatic Chronic 1, H410	017-011-00-1	7681-52-9	231-668-3	01-2119488154-34
Potassium cocoate	> 1 <= 1.5%	Skin Irrit. 2, H315; Eye Irrit. 2, H319	N.A.	61789-30-8	263-049-9	N.A.
Dodecylidimethylamine oxide	> 0,1 <= 0.4%	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411	N.A.	1643-20-5	216-700-6	01-2120068065-58

4. First aid measure



4.1 Description on first aid measure:

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.

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

If you experience harmful symptoms, contact a physician immediately.

5. Fire-fighting measure

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5.1 Extinguishing media:

Recommended extinguishing means:

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

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:

No data available.

5.3 Advice for fire-fighters:

Use protection for the respiratory tract.

Safety helmet and full protective clothing.

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

You may also want to use self-contained, especially if you work in an enclosed or poorly ventilated and in any case if you use halogenated extinguishing (fluobrene, Solkane 123, naf etc.).

Cool containers with water spray.

6. Measures in case of accidental release

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 further information.

7. Handling and storage

7.1 Precaution for safe handling:

Avoid contact and inhalation of vapors

Wear protective gloves/protective clothing/eye protection/face protection.

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 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.

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7.3 Specific end uses:

Private households (= general public = consumers):

Store in a cool dry place.

Public domain (administration, education, entertainment, services, craftsmen):

Handle with care.

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

Keep the container tightly closed.

8. Exposure controls / personal protection



8.1 Control parameters:

No data available on the mixture.

Related to contained substances:

Sodium hypochlorite, solution ... % 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)

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

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)

STP = 4,69 (mg/l)

Potassium cocoate:

No data available.

Dodecyldimethylamine oxide:

DNEL, inhalation, long term, systemic effects, workers: 6.2 mg/m³

DNEL, skin, long term, systemic effects, workers: 11 mg/kg bw/day

DNEL, inhalation, long term, systemic effects, population: 1.53 mg/m³

DNEL, skin, long term, systemic effects, population: 5.5 mg/kg bw/day

DNEL, oral, long term, systemic effects, population: 0.44 mg/kg bw/day

PNEC: freshwater 0.0335 mg/l

PNEC: sea water 0.00335 mg/l

PNEC, water (intermittent): 0.0335 mg/l

PNEC (freshwater) sediment: 5.24 mg/kg dw sediment

PNEC sediments (seawater): 0.524 mg/kg dw sediment

PNEC: 1.02 mg/kg dw soil

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) Eye / face protection

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

(b) Skin protection

(i) Hand protection

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

(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

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Environmental exposure controls:

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

9. Physical and chemical properties

9.1. Information on basic physical and chemical

Physical and chemical properties	Value	Method of determination
Appearance	Blu clear liquid	
Odour	Characteristic	
Odour threshold	not determined	
pH	12 – 12.5	
Melting point / freezing point	This property is not suitable for safety and product classification	
Initial boiling point and boiling range	This property is not suitable for safety and product classification	
Flash point	data not available	ASTM D92
Evaporation rate	This property is not suitable for safety and product classification	
Flammability (solid, gas)	data not available	
Upper / lower flammability or explosive limits	not explosive	
Vapour pressure	not determined	
Vapour density	data not available	
Relative density	1.022 g / ml	
Solubility	in water	
Water solubility	complete	
Partition coefficient: n-octanol/water	data not available	
Auto-ignition temperature	This property is not suitable for safety and product classification	
Decomposition temperature	This property is not suitable for safety and product classification	
Viscosity	300 +/-100 cP	
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:

Related to contained substances:

sodium hypochlorite, solution ... % Cl active:

Reaction with acids

10.2 Chemical stability:

No hazardous reaction when handled and stored according to provisions.


10.3 Possibility of hazardous reactions:

In contact with strong acids, it frees chlorine and gas based on chlorine dioxide. Free hydrogen in reaction with metals.

10.4 Condition to avoid:

Direct sunlight. Light/heat sources. Dampness.

10.5 Incompatible materials:

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Acids. The organic substances. Metals such as copper, nickel, cobalt, iron and their salts and alloys. Amines, methanol, and ammonium salts.

10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.

11. Toxicological information

11.1 Information on toxicological effects:

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: 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.

Related to contained substances:

sodium hypochlorite, solution ... % Cl active:
LD50/LC50 values for revealing the classification
Specification: LC50

Via oral administration:

Test species: rat

Value: 2000 >

Specification: LC50

Via Dermal intake:

Test species: rat

Value: 2000 >

Specification: LC50 (SODIUM HYPOCHLORITE, The ACTIVE CL SOLUTION; Nr. CAS: 7681-52-9)

Via Inhalation Administration:

Test species: Rat (female)

Value: > 10.5 mg/l

For. test: 1:0

Specification: LD50 (SODIUM HYPOCHLORITE, The ACTIVE CL SOLUTION; Nr. CAS: 7681-52-9)

Via oral administration:

Test species: Rat (male)

Value: = 1100 mg/kg

Specification: LD50 (SODIUM HYPOCHLORITE, The ACTIVE CL SOLUTION; Nr. CAS: 7681-52-9)

Via Dermal intake:

Test species: rabbit

Value: > 20000 mg/kg

Potassium cocoate:

Contact with skin: Irritant.

Contact with eyes: Irritating.

Chronic Effects: None in normal use.

LD50 Oral Rat > 2000 mg / kg

LD50 (rat) Oral (mg/kg body weight) = 1500

Dodecyldimethylamine oxide:

Ingestion: acute oral toxicity LD50 (rat) > 3,600 mg/kg

Contact with eyes: irritant (rabbit)

Contact with the skin: irritant (rabbit 4 hours)

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:

sodium hypochlorite, solution ... % Cl active:

Aquatic toxicity

LC50 (83d): 0.2 mg/L (short term-fish)

NOEC (28d): 0.04 mg CPO/L (long term-fish)

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EC50 (83d): 1.24-1.53 mg/L (short term-aquatic invertebrates)
 NOEC (480h): 1 mg/L (long term aquatic invertebrates)
 NOEC (7 d): 0.002 mg FAC/L (algae and cyanobatteri)
 NOEC (83d): 0.02 mg TRC/L (aquatic plants and algae)
 EC50 (3:00): 3 mg/L (microorganisms)
 C(E)L50 (mg/l) = 0,04 10
 NOEC (mg/l) = 0,02

Potassium cocoate:
 Ecotoxicity
 Toxicity to fish LC50> 1 mg / L
 Toxicity to Daphnia EC50> 1 mg / L
 Toxicity to algae EC50> 1 mg / l

Dodecyltrimethylamine oxide:
 Ecotoxicological effects:
 Toxicity to Daphnia EC50 (48 h) < 100 mg/l
 Toxicity, Carassius Auratus, LC50 (83d) 20-40 mg/l
 AOX: the product does not contain organohalogen compounds.
 Heavy metals: the product does not contain heavy metals at concentrations relevant to waste water.

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:

No data available on the mixture.

Related to contained substances:

sodium hypochlorite, solution ... % Cl active:
 No data available

Potassium cocoate:
 Biodegradability:
 Surfactant complies with the biodegradability criteria established by EC Regulation 648/2004 on detergents.

Dodecyltrimethylamine oxide:
 Easily biodegradable. The product is biodegradable according to OECD methods that could be used in cleaning products as provided in Regulation (EC) No 648/2004.

12.3 Bioaccumulative potential:

Related to contained substances:

sodium hypochlorite, solution ... % Cl active:
 No data available

Potassium cocoate:
 No data available.

Dodecyltrimethylamine oxide:
 No data available.

12.4 Mobility in soil:

Related to contained substances:

sodium hypochlorite, solution ... % Cl active:
 No data available


Potassium cocoate:
 No data available.

Dodecyltrimethylamine oxide:
 No data available.

12.5 Results of PBT and 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:

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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 considerations

13.1 **Methods of waste treatment:**

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. Operate according to local or national regulations.

14. Transport information



14.1 **UN number:**

ADR/RID/IMDG/ICAO-IATA: 1791

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:**

ADR/RID/IMDG: HYPOCHLORITE SOLUTION

ICAO-IATA: HYPOCHLORITE SOLUTION

14.3 **Classes of transport hazard:**

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 : 5 L

IMDG - EmS : F-A, S-B



14.4 **Packing group:**

ADR/RID/IMDG/ICAO-IATA: III

14.5 **Environmental hazards:**

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

IMDG: 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:**

Reg. 648/2004/EC (detergents), Decree 2/2/2002 n. 25 (risks related to chemical agents at work). D.m. 2/26/2004 Work (occupational exposure limits); D.m. 4/3/2007 (implementation of Directive 2006/8/EC). Regulation (EC) No 1907/2006 (REACH) Regulation (EC) no 1272/2008 (CLP), Regulation (EC) no 790/2009, 2012/18/EU Directive (cd. Seveso III).
REGULATION (EU) No 1357/2014 - waste:

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HP8 - Corrosive
HP14 - Ecotoxic

15.2 Chemical safety assessment:

No chemical safety assessment was carried out by the supplier.

16. Other information

Description of the hazard statements exposed to point 3

H314 = Causes severe skin burns and eye damage.
 H400 = Very toxic to aquatic life.
 H315 = Causes skin irritation.
 H319 = Causes serious eye irritation.
 H318 = Causes serious eye damage.
 H410 = Very toxic to aquatic life with long lasting effects.
 H411 = Toxic to aquatic life with long lasting effects.

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.