

SECTION1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product code : MANGIACALCARE
Trades code : 3SLXXDX038500

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

Cleaner descaler

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

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1.4. Emergency telephone number

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (H24)
Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)
Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)
Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)
Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)
Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma)
Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)
CAVp Osp. Pediatrico Bambino Gesù Roma Piazza Sant'Onofrio,4 00165 (06 68593726)
Az. Osp. Univ. Foggia Foggia V.le Luigi Pinto, 1 71122 (0881-732326)
CAV Centro Nazionale di Informazione Tossicologica Pavia Via Salvatore Maugeri, 10 27100 (0382-24444)

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):
Skin Corr. 1A

Hazard statement Code(s):
H314 - Causes severe skin burns and eye damage.

2.1.2 Classification according to Directive 1999/45/EEC:

Classification:

C; R35

Nature of special risks attributed:

R35 - Causes severe burns.

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):

H314 - Causes severe skin burns and eye damage.

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 compliance with the regulations.

Contains: sulphamidic acid, formic acid 0.6%

Contains (Reg.EC 648/2004):

< 5% perfumes, non-ionic surfactants

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

**SECTION3. Composition/information on ingredients****3.1 Substances**

Irrelevant

3.2 Mixtures

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

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
sulphamidic acid	> 1 <= 5%	Xi; R36/38 R52/53 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	016-026-00-0	5329-14-6	226-218-8	01- 2119488633 -28
Poly (ethylene oxide) mono-2-propylheptyl ether	> 1 <= 5%	Xn; R22 Xi; R41 Acute Tox. 4, H302; Eye Dam. 1, H318	N.A.	160875-66-1	N.A.	02- 2119549160 -47

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 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 ... (to be specified by the manufacturer).

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

No data available.

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

If you experience harmful symptoms, contact a physician immediately.

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

SECTION6. 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

Wear mask, gloves and protective clothing.

6.1.2 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 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

SECTION7. Handling and storage**7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors

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 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)

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.

SECTION 8. Exposure controls/personal protection**8.1. Control parameters**

No data available on the mixture.

Related to contained substances:

sulphamidic acid:

Exposure limits: TLV not established.

Poly (ethylene oxide) mono-2-propylheptyl ether:

No data available

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.

(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.

SECTION9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	fluid, slightly yellow liquid	
Odour	scented	
Odour threshold	not determined	
pH	1.09	
Melting point/freezing point	not determined	
Initial boiling point and boiling range	not determined	
Flash point	not determined	ASTM D92
Evaporation rate	not determined	
Flammability (solid, gas)	not determined	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not determined	
Vapour density	not determined	
Relative density	1.022 a 20°C	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
Viscosity	< 50 cps a 20°C	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

No data available.

SECTION10. Stability and reactivity
10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

In contact with alkaline substances can react dangerously.

10.4. Conditions to avoid

Avoid contact with alkaline substances. Do not use on acid-sensitive materials, such as marble or enamel, aluminum,

copper, stone, galvanized surfaces, kitchen worktops, linoleum, varnished floors, waxed or oiled, rubber, textiles and carpets.

10.5. Incompatible materials

Basic substances, acid-sensitive materials, such as marble or enamel, aluminum, copper, stone, galvanized surfaces, kitchen worktops, linoleum, varnished floors, waxed or oiled, rubber, textiles and carpets.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

No toxicological tests have been performed on the mixture.

- (a) acute toxicity: not applicable
- (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: not applicable
- (e) germ cell mutagenicity: not applicable
- (f) carcinogenicity: not applicable
- (g) reproductive toxicity: not applicable
- (h) specific target organ toxicity (STOT) single exposure: not applicable
- (i) specific target organ toxicity (STOT) repeated exposure not applicable
- (j) aspiration hazard: not applicable

Related to contained substances:

sulphamidic acid:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

INHALATION RISK: Evaporation at 20C negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.

EFFECTS OF SHORT-TERM EXPOSURE: The aerosol 'corrosive to the eyes, the skin and the respiratory tract. Inhalation of aerosolized sulfamic acid can cause pulmonary edema

ACUTE HAZARDS / SYMPTOMS INHALATION: Cough. Cough. Shortness of breath. SKIN: Redness. Pain. Blisters.

EYES: Redness. Pain. Severe deep burns.

INGESTION: Abdominal cramps. Burning sensation. Sore throat. Vomiting. Shock.

NOTES symptoms of lung edema often do not become manifest until a few hours and are aggravated by physical effort.

Are therefore essential Rest and medical observation. It Immediate administration of an appropriate inhalation therapy by a doctor or a person he / she authorized.

LD50 (rat) Oral (mg/kg body weight) = 1450

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2001

Poly (ethylene oxide) mono-2-propylheptyl ether:

Acute toxicity

Data experimental / calculated:

LD50 rat (oral): 200 - 2000 mg / kg

Irritation

Experimental data / calculated:

Corrosion / skin irritation of rabbit: non-irritating. (OECD Guideline 404)

Serious eye damage / eye irritation rabbit: Risk of serious damage to eyes. (OECD Guideline 405)

Additional information on toxicity

This product has not been tested. Toxicological data were derived from products of similar structure and composition.
LD50 (rat) Oral (mg/kg body weight) = 201

SECTION 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:

sulphamidic acid:

It can cause long-term adverse effects in the aquatic environment.

C(E)L50 (mg/l) = 48

Poly (ethylene oxide) mono-2-propylheptyl ether:

Fish: LC50 (96h): 10 - 100 mg / l, Brachydanio rerio (OECD - guideline 203)

The product has not been tested. the data was derived from products of similar structure and composition.

Aquatic invertebrates: EC50 (48 h) 1 - 10 mg / l, Daphnia magna

Aquatic plants: EC50 (72 h) 10 - 100 mg / l, Scenedesmus subspicatus (OECD - guideline 201)

C(E)L50 (mg/l) = 1

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:

sulphamidic acid:

No data available

Poly (ethylene oxide) mono-2-propylheptyl ether:

Disposal considerations:

> = 90% bismuth-active substance (OECD Guideline 303A)

> 60% of the theoretical CO₂ formation (28 d) (OECD 301B, ISO 9439; 92/69/EEC, C.4-C)

readily biodegradable

12.3. Bioaccumulative potential

No data available on the mixture.

Related to contained substances:

sulphamidic acid:

No data available

Poly (ethylene oxide) mono-2-propylheptyl ether:

Bioaccumulation is not expected.

12.4. Mobility in soil

No data available on the mixture.

Related to contained substances:

sulphamidic acid:
No data available

Poly (ethylene oxide) mono-2-propylheptyl ether:
The substance will evaporate into the atmosphere from the surface of the water.
The absorption in the soil solid phase is possible.

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

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.

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

1760

ADR exemption because compliance with the following characteristics:

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. (sulphamidic acid, formic 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 not 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 MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION15. 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

SECTION16. Other information**16.1. Other information**

Points modified compared to previous release: 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 4.1. Description of first aid measures, 6.3. Methods and material for containment and cleaning up, 7.1. Precautions for safe handling, 8.1. Control parameters, 8.2. Exposure controls, 11.1. Information on toxicological effects, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 13.1. Waste treatment methods, 14.1. UN number, 14.2. UN proper shipping name, 14.3. Transport hazard class(es), 14.4. Packing group, 14.5. Environmental hazards, 14.6. Special precautions for user, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of the sentences of risk set out in paragraph 3

R22 = Harmful if swallowed.

R36 = Irritating to eyes.

R38 = Irritating to skin.

R41 = Risk of serious damage to eyes.

R52 = Harmful to aquatic organisms.

R53 = May cause long-term adverse effects in the aquatic environment.

Description of the hazard statements exposed to point 3

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H412 = Harmful to aquatic life with long lasting effects.

H302 = Harmful if swallowed.

H318 = Causes serious eye damage.

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

*** This Board cancels and replaces any previous edition.