

**A/C BIO DETERGENT**

Issued on 08/03/2023 - Rel. # 1 on 08/03/2023

In conformity to Regulation (EU) 2020/878

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SECTION 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product code : A/C BIO DETERGENT

Trades code : 11.625

UFI: TD11-S06D-S00F-17RJ

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

Sanitizing detergent

Sectors of use:

Public domain[SU22]

Product category:

Washing and Cleaning Products (including solvent based products)

Process categories:

Use in closed process, no likelihood of exposure[PROC1]

Uses advised against

This product is not recommended for any industrial, professional or consumer use other than those listed in this section, or in section 7.3 or on the label.

1.3. Details of the supplier of the safety data sheet

ELKE S.r.l. Via XXV Aprile 202 10042 Nichelino (To) Italia

Tel. n. +39 011 9622412

Email: info@elke-ac.com

Sito internet: www.elke-ac.com

National contact: Domenico Amosso

1.4. Emergency telephone number

+39 011 9622412

SECTION 2. Hazards identification**2.1. Classification of the substance or mixture**

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

Pictograms:

GHS07

Hazard Class and Category Code(s):

Eye Irrit. 2

Hazard statement Code(s):

H319 - Causes serious eye irritation.

If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

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2.2. Label elements

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

Pictogram, Signal Word Code(s):

GHS07 - Warning

Hazard statement Code(s):

H319 - Causes serious eye irritation.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention

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

Response

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Contains (Reg. EC 648/2004):

< 5% Perfumes, Non-ionic surfactants, Cationic surfactants

UFI: TD11-S06D-S00F-17RJ

**2.3. Other hazards**

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

Do not swallow and avoid contact with eyes.

Labeling in accordance with Directives 67/548 / EEC and 1999/45 / EC and subsequent amendments and adjustments.

For professional use only

SECTION 3. Composition/information on ingredients**3.1 Substances**

Irrelevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Benzyl-C12-14-alkyldimethylamm onium chlorides	< 0,1%	Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity	ND	85409-22-9	939-350-2	01-2119970 550-39-000 0

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Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
		M-factor = 10 Chronic toxicity M-factor = 1 ATE oral = 397,5 mg/kg ATE dermal = 3.412,0 mg/kg ATE inhal = 0,3mg/l/4 h				
Sodium Hydroxide	< 0,1%	Met. Corr. 1, H290; Skin Corr. 1A, H314 Limits: Skin Corr. 1A, H314 %C >=5; Skin Corr. 1B, H314 2<= %C <5; Skin Irrit. 2, H315 0,5<= %C <2; Eye Irrit. 2, H319 0,5<= %C <2; Met. Corr. 1, H290 %C >=5; ATE dermal = 1.350,0 mg/kg	011-002-00-6	1310-73-2	215-185-5	01-2119457 892-27

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 medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

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:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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 eye irritation persists: Get medical advice/attention.

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.

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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

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

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:

Nothing 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

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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 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.

Instructions for the correct storage of the product: The product retains its chemical-physical and technical application characteristics unaltered if stored in a covered place and a temperatures between +5 and + 30 ° C.

7.3. Specific end use(s)

Public domain:

Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

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

Sodium Hydroxide:

TLV: 2 mg/m³ (Ceiling) (ACGIH 2004).

- Substance: Benzyl-C12-14-alkyldimethylammonium chlorides

DNEL

Systemic effects Long term Workers inhalation = 3,96 (mg/m³)

Systemic effects Long term Workers dermal = 5,7 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 1,64 (mg/m³)

Systemic effects Long term Consumers dermal = 3,4 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 3,4 (mg/kg bw/day)

PNEC

Sweet water = 0,0009 (mg/l)

sediment Sweet water = 12,27 (mg/kg/sediment)

Sea water = 0,00096 (mg/l)

sediment Sea water = 13,09 (mg/kg/sediment)

intermittent emissions = 0,00016 (mg/l)

STP = 0,4 (mg/l)

ground = 7 (mg/kg ground)

- Substance: Sodium Hydroxide

DNEL

Local effects Long term Workers inhalation = 1 (mg/m³)

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

8.2. Exposure controls

Appropriate engineering controls:

Public domain:

No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection

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

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(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.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical and chemical properties	Value	Determination method
Physical state	Liquid	Liquido/Liquid/Liquide/υγρό/Flüssigkeit
Colour	straw	
Odour	light lemon characteristic of the blend	Τίπο/Typical/Τυπική/Τυπικός/Typisch
Odour threshold	Not determined	
Melting point/freezing point	Not determined	
Boiling point or initial boiling point and boiling range	103° C.	
Flammability	Not inflammable	
Lower and upper explosion limit	Not relevant as a non-flammable preparation / substance	
Flash point	Not relevant as a non-flammable preparation / substance	
Auto-ignition temperature	Not determined	
Decomposition temperature	The preparation / substance is not an organic peroxide and does not decompose	
pH	pH: 11 Temperature: 25° Method: 100%	
Kinematic viscosity	Not determined	
Solubility	Not determined	
Water solubility	Soluble in water in all proportions	
Partition coefficient n-octanol/water (log value)	Not determined	
Vapour pressure	Not determined	
Density and/or relative density	1,005 Kg/dm ³ a 20° C.	Kg/dm ³ a 20° C.
Relative vapour density	Not determined	
Particle characteristics	Not applicable	Non applicabile

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9.2. Other information**9.2.1 Information with regard to physical hazard classes**

a) Explosives

i) sensitivity to shock

Irrelevant

ii) effect of heating under confinement

Irrelevant

iii) effect of ignition under confinement

Irrelevant

iv) sensitivity to impact

Irrelevant

v) sensitivity to friction

Irrelevant

vi) thermal stability

Irrelevant

vii) package

Irrelevant

b) Flammable gases

i) T_{ci} / explosion limits

Irrelevant

ii) fundamental burning velocity

Irrelevant

c) Aerosols

Irrelevant

d) Oxidising gases

Irrelevant

e) Gases under pressure

Irrelevant

f) Flammable liquids

Irrelevant

g) Flammable solids

i) burning rate, or burning time as regards metal powders

Irrelevant

ii) statement on whether the wetted zone has been passed

Irrelevant

h) Self-reactive substances and mixtures

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-
- i) decomposition temperature
Irrilevant
 - ii) detonation properties
Irrilevant
 - iii) deflagration properties
Irrilevant
 - iv) effect of heating under confinement
Irrilevant
 - v) explosive power, if applicable
Irrilevant
 - i) Pyrophoric liquids
Irrilevant
 - j) Pyrophoric solids
 - i) statement on whether spontaneous ignition occurs when poured or within five minutes thereafter, as regards solids in powder form
Irrilevant
 - ii) statement on whether pyrophoric properties could change over time
Irrilevant
 - k) Self-heating substances and mixtures
 - i) statement on whether spontaneous ignition occurs and the maximum temperature rise obtained
Irrilevant
 - ii) results of screening tests referred to in section 2.11.4.2 of Annex I to Regulation (EC) No 1272/2008, if relevant and available
Irrilevant
 - l) Substances and mixtures, which emit flammable gases in contact with water. The following information may be provided
 - i) identity of the emitted gas, if known
Irrilevant
 - ii) statement on whether the emitted gas ignites spontaneously
Irrilevant
 - iii) gas evolution rate
Irrilevant
 - m) Oxidising liquids
Irrilevant
 - n) Oxidizing solids
Irrilevant
 - o) Organic peroxides
 - i) decomposition temperature
Irrilevant
-

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ii) detonation properties

Irrilevant

iii) deflagration properties

Irrilevant

iv) effect of heating under confinement

Irrilevant

v) explosive power

Irrilevant

p) Corrosive to metals

i) metals that are corroded by the substance or mixture

Irrilevant

ii) corrosion rate and statement on whether it refers to steel or aluminium

Irrilevant

iii) reference to other sections of the safety data sheet with regard to compatible or incompatible materials

Irrilevant

q) Desensitised explosives

i) desensitising agent used

Irrilevant

ii) exothermic decomposition energy

Irrilevant

iii) corrected burning rate (Ac)

Irrilevant

iv) explosive properties of the desensitised explosive in that state

Irrilevant

9.2.2 Other safety characteristics

a) mechanical sensitivity

Irrilevant

b) self-accelerating polymerisation temperature

Irrilevant

c) formation of explosible dust/air mixtures

Irrilevant

d) acid/alkaline reserve

Irrilevant

e) evaporation rate

Irrilevant

f) miscibility

Irrilevant

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g) conductivity
Irrilevant

h) corrosiveness
Irrilevant

i) gas group
Irrilevant

j) redox potential
Irrilevant

k) radical formation potential
Irrilevant

l) photocatalytic properties
Irrilevant

SECTION 10. 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

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, inorganic sulfide, strong reducing agents.

It can generate toxic gases to contact with inorganic sulfide, strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

ATE(mix) oral = 842.105,3 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = 2.500,0 mg/l/4 h

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(a) acute toxicity: Benzyl-C12-14-alkyldimethylammonium chlorides: Information on likely routes of exposure

-Inhalation May cause irritation to the respiratory tract.

-Cutaneous Causes severe skin burns.

-Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. Harmful if swallowed.

Sodium Hydroxide: Inhalation: Vapors may irritate the throat and the respiratory tract and cause coughing.

Ingestion: May cause chemical burns in the mouth, esophagus and stomach.

Skin contact: prolonged contact may cause redness and irritation. Causes burns.

Eye contact: very irritating, including burning and tearing, of eyelids: and mucous membranes. Causes burns.

Acute oral, cutaneous and inhalative toxicity:

- DL-100 (oral): rabbit: => 500 mg / kg bw

- DL-50 (cutaneous): rabbit: => 1350 mg / kg bw

(b) skin corrosion/irritation: Benzyl-C12-14-alkyldimethylammonium chlorides: Causes severe skin burns

Sodium Hydroxide: Corrosive. Prolonged contact can cause redness and irritation. Causes burns.

Benzyl-C12-14-alkyldimethylammonium chlorides: Causes severe skin burns

Sodium Hydroxide: Corrosive. Prolonged contact may cause redness and irritation. Causes burns.

(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

Benzyl-C12-14-alkyldimethylammonium chlorides: Causes serious eye damage.

Sodium Hydroxide: Corrosive. Very strong irritation, including burning and tearing, of Eyes: and mucous membranes.

Causes burns.

Benzyl-C12-14-alkyldimethylammonium chlorides: Causes serious eye damage.

Sodium Hydroxide: Corrosive. Very irritating, including burning and tearing, of eyelids: and mucous membranes.

Causes burns.

(d) respiratory or skin sensitisation: Benzyl-C12-14-alkyldimethylammonium chlorides: Based on available data, the classification criteria are not met.

Sodium Hydroxide: Not sensitizing based on tests performed

(e) germ cell mutagenicity: Benzyl-C12-14-alkyldimethylammonium chlorides: Based on available data, the classification criteria are not met.

Sodium Hydroxide: not mutagenic

(f) carcinogenicity: Benzyl-C12-14-alkyldimethylammonium chlorides: Based on available data, the classification criteria are not met.

Sodium Hydroxide: negative

(g) reproductive toxicity: Benzyl-C12-14-alkyldimethylammonium chlorides: Based on available data, the classification criteria are not met.

Sodium Hydroxide: Data not available

(h) specific target organ toxicity (STOT) single exposure: Benzyl-C12-14-alkyldimethylammonium chlorides: Based on available data, the classification criteria are not met.

Sodium Hydroxide: Data not available

(i) specific target organ toxicity (STOT) repeated exposure: Benzyl-C12-14-alkyldimethylammonium chlorides: Based on available data, the classification criteria are not met.

Sodium Hydroxide: Data not available

(j) aspiration hazard: Benzyl-C12-14-alkyldimethylammonium chlorides: Based on available data, the classification criteria are not met.

Sodium Hydroxide: Data not available

Health hazards:

Eye contact: Accidental contact of the product with the eyes may cause irritation.

Contact with skin: The product is not an irritant. Repeated and prolonged direct contacts can degrease and irritate the skin causing dermatitis in some cases.

Ingestion: The ingested product may cause irritation of the mucous membranes of the throat and the digestive system with consequent abnormal digestive symptoms and intestinal disorders.

Inhalation: Prolonged exposure to vapors or mists of the product may cause irritation of the respiratory tract.

Related to contained substances:

Benzyl-C12-14-alkyldimethylammonium chlorides:

LD50 (rat) Oral (mg/kg body weight) = 397,5

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 3412

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CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 0,32

Sodium Hydroxide:

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 1350

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information**12.1. Toxicity**

Related to contained substances:

Benzyl-C12-14-alkyldimethylammonium chlorides:

Toxicity Very toxic to aquatic life with long lasting effects.

Acute

Other IC50 Pseudokirchnerella subcapitata 0.03 mg / l, 96 hours (OECD 201)

Chronic

Other EC10 Pseudokirchnerella subcapitata 0.009 mg / l, 72 hours (OECD 201)

Aquatic

Acute

Other EC50 Diatom (Skeletonema costatum) 0.207 mg / l, 72 hours (ISO 10253)

Crustaceans EC50 Daphnia magna 0.016 mg / l, 48 hours (EU Method C.2)

LC50 Calanoid copepod (Acartia tonsa) 0.32 mg / l, 48 hours (ISO / CD14669)

Fish LC50

- Bluegill (Lepomis macrochirus) 0.515 mg / l, 96 hours (EPA OPP 72-1)

- Cyprinodon variegatus 1.28 mg / l, 96 hours (PARCOM 1995 Part B)

- Oncorhynchus mykiss 0.85 mg / l, 96 hours (OECD 203)

Chronic

Crustaceans NOEC Daphnia magna 0.025 mg / l, 21 Days (OECD 211)

Fish NOEC > 32.2 µg / L, 28 Days (U.S. EPA FIFRA 72-4 (a))

Acute toxicity M-factor = 10

Sodium Hydroxide:

ECOTOXICITY

Product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills may have harmful or harmful effects on the environment.

LC50, 96 H, FISH, mg / l 55.6

EC50, 48 H, DAFNIA, mg / l 156

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

12.2. Persistence and degradability

Related to contained substances:

Benzyl-C12-14-alkyldimethylammonium chlorides:

According to the regulation (EC) No 1907/2006 (REACH) annex VIII, column 2, a study assessing hydrolysis does not need to be conducted if the substance is readily biodegradable.

C12 -14 ADBAC is considered to be readily biodegradable.

Abiotic degradation

C12-14 ADBAC is expected to be readily biodegradable and therefore data on hydrolysis is not required in accordance with Annex VIII column 2 adaptation of REACH. However, the analogue substance C12-16 ADBAC was shown to

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behydrolytically stable with a half-life equal to or greater than one year at pH 4, 7 and 9 at ambient temperatures. Abiotic degradation is therefore considered to be of limited relevance for the environmental fate of ADBAC substances.

Biotic degradation

Valid OECD guideline studies on C12-16 ADBAC have shown the read-across substance to be readily biodegradable, with degradation ranging from 63-95% within 28 days. C12-14 ADBAC is therefore also expected to rapidly degrade in the environment under aerobic conditions without formation of persistent degradation products.

Biodegradation in water and sediment

In a continuous activated sludge (CAS) test with the read-across substance C12-16 ADBAC, a total mean removal of 99.998%, with 0.016 to 0.023% removal via adsorption to sludge, was observed. The same is expected for C12-14 ADBAC.

Biodegradation in soil

A biodegradation study resulted in 64% biodegradation of the analogue substance C12-16 ADBAC in a loam soil at Day 70, with a DT50 value of 40 days. The same biodegradation behaviour is expected for C12-14 ADBAC.

Sodium Hydroxide:

Not applicable (organic substance).

12.3. Bioaccumulative potential

Related to contained substances:

Benzyl-C12-14-alkyldimethylammonium chlorides:

The bioaccumulation potential of C12-C14 ADBAC was estimated to be 67.62 L/kg ww (log BCF = 1.79) according to the BCFBAF v3.01 model of EPIWEB v 4.1. Furthermore, the substance is expected to be readily biodegradable and is efficiently metabolised in mammal. Overall, a low terrestrial bioaccumulation potential can be assumed

n-octanol / water (log Kow) = 2.75 (@ 20 ° C)

Sodium Hydroxide:

Bioaccumulation is not expected in organisms.

12.4. Mobility in soil

Related to contained substances:

Benzyl-C12-14-alkyldimethylammonium chlorides:

no data available

Sodium Hydroxide:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

12.7. Other adverse effects

No adverse effects

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

Information on biodegradability:

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The surfactant (s) contained in this formulation complies (comply) with the biodegradability criteria established by Regulation (EC) no. 648/2004 relating to detergents. All the supporting data are kept available to 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, to the aforementioned authorities.

Contaminated packaging must be emptied in an optimal way and then, after adequate washing, can be destined for reuse.

SECTION 13. 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. Operate according to local or national regulations

SECTION 14. Transport information**14.1. UN number or ID number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

It is not intended to carry bulk

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

Regulation (EC) n. 1907/2006 (REACH).

Regulation (EC) n. 1272/2008 (CLP).

Regulation (EC) 790/2009.

Substances in the Candidate List (REACH Article 59)

Based on available data, no SVHC substances are present

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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

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H318 = Causes serious eye damage.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

H290 = May be corrosive to metals.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008

H319 - Causes serious eye irritation. Classification procedure: Calculation method

Information on Intended Use: This product is of technical quality and, unless otherwise specified or agreed, is to be used for professional or industrial use only. This includes the mentioned and recommended field of use. Further intended uses must be agreed with the manufacturer. This concerns in particular the sale to the public, which is regulated by special regulations or legislations.

The product must not be used for purposes other than those specified in section 1.

This sheet has been prepared in accordance with the following standards:

European Community:

- ADR 2021 agreement
- Commission Delegated Regulation (EU) 2020/217 of 4 October 2019
- Regolam. 2018/675 / EU (amends Annex XVII of REACH - substances subject to CMR restriction)
- Ministry of the Environment SVHC Substances
- Regolam. 2016/863 / EU (amendment of Annexes VII and VIII of Regulation (EC) No. 1907/2006)
- Regolam. 2015/830 / EU
- Regolam. 2013/126 / EU (amends Annex XVII of Regulation (EC) No. 1907/2006)
- Directive 2012/18 / EU (Seveso directive)
- Regolam. 2012/109 / EU (CMR substances)
- Regolam. 2012/125 / EU (registration, evaluation, authorization and restriction of REACH chemicals)
- Regolam. 2011/286 / UE (modification of EC regulation 1272/2008 classification, labeling, packaging of substances and mixtures)
- Regolam. 2010/453 / EC (amendment of the REACH regulation EC / 1907/2006)
- Presidential Decree 21 6/2/2009 (execution of the provisions of Reg. 648/2004)
- Regolam. 2009/790 / EC (modification of reg. 2008/1272 / EC classification, labeling, packaging of substances and mixtures)
- Regolam. 2008/1272 / EC (classification, labeling, packaging of substances and mixtures)
- Legislative Decree 145 28/7/2008 (implementation of Directive 2006/121 / EC and EC Regulation 1907/2006)
- Directive 2006/1907 / CE (REACH Registration, Evaluation and Authorization of Chemicals)
- Regolam. 2006/907 / CE (modification of reg. 2004/648 / CE European Parliament and Council concerning detergents)
- Regolam. 2004/648 / EC (relating to detergents)
- Directive 2004/73 / EC (XXIX adaptation to technical progress of Directive 67/548 / EEC)
- Legislative Decree 65 14/03/2003 (Implementation of directives 1999/45 / EC and 2001/60 / EC)
- Directive 2001/60 / EC (adaptation to technical progress of Directive 1999/45 / EC)
- Directive 2001/58 / EC (adaptation of Directive 91/155 / EC modalities of the information system on dangerous preparations)
- Directive 1999/45 / EC (classification, packaging and labeling of dangerous preparations)

A/C BIO DETERGENT

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Legend:

CLP: Classification, Labeling and Packaging
EC50: Maximum Effective Concentration for 50% of Individuals
LC50: Lethal Concentration for 50% of Individuals
LD50: Lethal Dose for 50% of Individuals
NOEL: Maximum dose with no effects
PNEC: Predicted No Effect Concentration
DNEL: Derived No Effect Dose
DMEL: Derived dose of least effect
STEL: short term exposure limit
TLV: limit value threshold
TWA: time weighted average
PBT: persistent bioaccumulative and toxic substances
vPvB: very persistent and very bioaccumulative substances
CSA: Chemical Safety Assessment
CSR: chemical safety report
ES: exposure scenarios
DU: downstream users

16.1 Training Information:

The manufacturer urges the customer who receives this sheet to examine it carefully to be informed of any risks and recommends the dissemination of the information contained to the workers and how many others come into contact with the product. In the event that the product is delivered to others, please note the obligation to provide a copy of this sheet in order to allow the spread of information actions contained therein.

16.2 Main bibliographic sources:

ECHA - European Chemical Agency
ACGIH - American Conference of Governmental Industrial Hygienists
ECB - European Chemicals Bureau
IARC - International Agency for Research on Cancer
IPCS - International Program on Chemical Safety (Cards)
NIOSH - Registry of toxic effects of chemical substances (1983)
OSHA - European Agency for Safety and Health at Work
PHATOX - Pharmacological and Toxicological Data and Information Network

The information contained in this safety data sheet is provided for the purpose of health and safety protection in the workplace and is based on our current knowledge and applicable EU and national laws. Any chemical can be used under safe conditions, if you know its physical and chemical properties and if you use the proper safety measures and clothing. To assess the risk of exposure to chemical agents in the workplace, comply with the provisions of the laws in force. It is always the user's responsibility to comply with the hygiene, safety and environmental protection regulations provided for by the laws in force. The manufacturer cannot accept complaints resulting from improper use of the information indicated here or from improper use in the application of the product. We advise our customers to carry out the corresponding tests before using the product on new fields that have not been sufficiently tested or for uses other than those indicated in paragraph 1 of this sheet.

The information contained in this safety data sheet is intended as a description of the characteristics of the preparation for safety purposes and is not to be considered as guarantees of the properties of the product itself.

*** This sheet supersedes any previous edition.