

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

1.1. Product identifier

Product code : ACTIVE FOAM – DESCALER PULISVELT 400ml
Trades code : 00400

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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Produced by
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1.4. Emergency telephone number

Centro Antiveneni Ospedale Riuniti (BG) - 800.883300 24 ore su 24

SECTION2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Directive 1999/45/EEC:

Classification:
F+; R12 C; R35

Nature of special risks attributed:
R12 - Extremely flammable.
R35 - Causes severe burns.

The product ignites easily even at temperatures below 10 °C.
The product is highly corrosive and, if brought in contact with skin causes serious burns, rapidly destroying the whole thickness of skin tissue.
The repeated inhalation of vapors can cause drowsiness and giddiness.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 ° C.
The aerosol containers overheated burst and can be ejected with violence from a distance and can take place a dangerous mechanism for the fire.

2.2. Label elements

Labeling according to Directive (EC) No 1999/45:

Provided symbols:

- F+ - Extremely flammable
- C - Corrosive



Attributed risk:

- R12 - Extremely flammable.
- R35 - Causes severe burns.

Precautionary statements:

- S1/2 - Keep locked up and out of the reach of children.
- S16 - Keep away from sources of ignition — No smoking.
- S23 - Do not breathe spray
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S51 - Use only in well-ventilated areas.
- S56 - Dispose of this material and its container to hazardous or special waste collection point.

Contains (Reg.EC 648/2004): 5% < 15% aliphatic hydrocarbons, < 5% perfumes, non-ionic surfactants, Citronellol, Linalool, Coumarin

It is compulsory to provide the container with security closure for children

It is compulsory to provide the container with an indication of danger to the touch

WARNINGS : Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 ° C. Do not pierce or burn, even after usage. Do not spray on a naked flame or incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children.

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

SECTION 3. Composition/information on ingredients
3.1 Substances

Irrilevant

3.2 Mixtures

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

mixture: n-Butane + i-Butane + Propane contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8)

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
mixture: n-Butane + i-Butane + Propane	> 5 <= 10%	F+; R12 Flam. Gas 1, H220; Liq. Gas, H280	649-199-00-1	68476-40-4	200-681-4	01-2119486557-22
Alcohols, C12-15, ethoxylated	> 1 <= 5%	Xn; R22 Xi; R41 N; R50 Acute Tox. 4, H302; Eye Dam. 1, H318; Aquatic Acute 1,	N.A.	68131-39-5	N.A.	N.A.

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
		H400				
2-Butoxyethanol	> 1 <= 5%	Xn; R20/21/22 Xi; R36/38 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Acute Tox. 4, H332	603-014-00-0	111-76-2	203-905-0	01- 2119475108- 36
Perfume	> 0,1 <= 1%	Xi; R36/38 Xi; R43 N; R51/53 Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; Aquatic Chronic 2, H411	N.A.	N.A.	N.A.	N.A.

SECTION4. 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.
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.
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.

SECTION5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

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

Extinguishing means to avoid:

Direct jets of water

5.2. Special hazards arising from the substance or mixture

The aerosol containers overheated burst and can be ejected with violence from a distance and can take place a dangerous mechanism for the fire.

Manufactured under pressure in sealed metal container (test pressure 15 bar max). Cool containers with water spray trying to remove them from the fire. The aerosol containers can be overheated and burst violently ejected from a distance (protect the head using a safety helmet).

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

Leave the surrounding area recalling that any overheating could project the cylinder at a considerable distance.

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Given the tightness of aerosol, it is unlikely that the spillage may occur.

However if some container is damaged likely to cause a loss, insulate the tank in question by bringing it to open air or covering it with inert material and fuel (eg sand, earth, vermiculite) and having the care to avoid any point of ignition that might pose a serious risk of fire.

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

Inform the competent 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 the removal.

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. See also paragraph 8 below.

At work do not eat or drink.

Do not smoke at work

Vapors are heavier than air and may spread close to the ground and form explosive mixtures with air. Prevent formation of flammable or explosive concentrations in the air.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 ° C.

Do not pierce or burn, even after the use. Do not spray on flame or incandescent objects. Use in adequately ventilated areas.

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.

Pressurized container. Store in a ventilated place, in original packaging away from heat and sunlight.

Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.

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:

mixture: n-Butane + i-Butane + Propane

TLV-TWA (8h) 1000 ppm ACGIH (2006 Edition)

Alcohols, C12-15, ethoxylated

No data available.

2-Butoxyethanol

TLV (TWA): 20 ppm A3 (approved for the animal carcinogen with unknown relevance to humans); (ACGIH 2004).

Mak: 20 ppm 98 mg/m peak limitation Category: II (4); dermal absorption (H); Risk group for pregnancy: C; (DFG 20024).

Perfume

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.

Better is to use cotton antistatic clothing

(c) Respiratory protection

Work in a sufficiently ventilated to avoid inhaling the product.

Use appropriate protective equipment as active small masks for organic solvents

(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	Pressure vessel with base and liquefied gas	
Odour	Characteristic	
Odour threshold	not determined	
pH	base at 20° C: 11.6-12	
Melting point/freezing point	undefined	
Initial boiling point and boiling range	not determined	
Flash point	not determined	
Evaporation rate	irrelevant	
Flammability (solid, gas)	not determined	
Upper/lower flammability or explosive limits	for the propellant: 1.8% LEL/ 9.5% UEL	
Vapour pressure	undefined	
Vapour density	undefined	
Relative density	1.01-1.03 at 20 °C	
Solubility	water soluble base	
Water solubility	completely soluble base	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	405 °C	
Decomposition temperature	not determined	
Viscosity	not determined	
Explosive properties	lower explosion limit of the propellant: 1.8%	
Oxidising properties	non-oxidizing	
Container volume	650 ml	

Physical and chemical properties	Value	Determination method
Product volume	500 ml	
Pressure to 20°C	3.8-4.2 bar	
Deformation pressure	undefined	
Burst pressure of the container	undefined	
Flash point of liquid phase	nonflammable	
Propellant inflammability	less than 0 °C	

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

There are no hazardous reactions

10.4. Conditions to avoid

Take precautionary measures against static discharges.

The aerosol product is stable for a period of more than 36 months and under normal storage conditions may not be dangerous reactions because the container is hermetically sealed.

Avoid contact with oxidizing materials. The product may ignite.

Avoid heat, open flames, sparks and hot surfaces.

In order to avoid that the metal of the container can deteriorate, keep away from acid reaction products or basica.

Attention to heat because at temperatures exceeding 50 °C there is an increase in pressure inside the container such as to reach the deformation of the tank until the outbreak.

10.5. Incompatible materials

Incandescent bodies, oxidizing materials.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION11. Toxicological information

11.1. Information on toxicological effects

No toxicological tests have been performed on the mixture.

- (a) acute toxicity: not applicable
- (b) irritation: not applicable
- (c) corrosivity: The product is highly corrosive and, if brought in contact with skin causes serious burns, rapidly destroying the whole thickness of skin tissue.
- (d) sensitisation: not applicable
- (e) repeated dose toxicity;: not applicable
- (f) carcinogenicity: not applicable
- (g) mutagenicity: not applicable
- (h) toxicity for reproduction: not applicable

Related to contained substances:

mixture: n-Butane + i-Butane + Propane

Toxicity:

Not-toxic but simple suffocating. Gaseous state has no effect on the skin and mucous membranes. The vapours may cause narcotic effects.

Irritating power:

The contact of the liquid product on the skin causes cold sores.

There is no evidence relating to the following effects: Chronic toxicity - Sensitization - Mutagenesis - Teratogenesis - Carcinogenesis.

Alcohols, C12-15, ethoxylated

Potential acute health effects

Inhalation: no known significant effects or critical hazards.

Ingestion: harmful if swallowed.

Skin contact: no known significant effects or critical hazards.

Eye contact: Severely irritating to eyes.

Acute toxicity

LD50 oral, rat: 1642 mg/kg

Skin, rabbit: LD50 2300 mg/kg

2-Butoxyethanol

EXPOSURE PATHWAYS: the substance can be absorbed into the body by inhalation and through the skin and if swallowed.

INHALATION RISK: A harmful contamination of air will be reached quite slowly through evaporation of the substance at 20 °C.

EFFECTS OF SHORT-TERM EXPOSURE: the substance is irritating to eyes, skin and respiratory tract the substance may cause effects on the central nervous system, kidney and liver blood.

EFFECTS OF REPEATED/LONG TERM EXPOSURE: the liquid has the cute defatting properties.

ACUTE HAZARDS/SYMPTOMS

INHALATION: Coughing. Vertigo. Sleepiness. Headaches. Nausea. Weakness.

CUTE: it can be absorbed. Dry scalp. (Also see inhalation).

EYES: Redness. Pain. Blurred vision. Ingestion: abdominal pain. Diarrhea. Nausea. Vomiting. (Also see inhalation).

Perfume

There are no toxicological data on the mixture.

SECTION12. 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:

mixture: n-Butane + i-Butane + Propane

No data available

Alcohols, C12-15, ethoxylated

Fish (LC50), 96 h: < 1 mg/l
Daphnia (EC50), 48 h: 1.3 mg/l
Algae (IC50), 72 h: 0.85 mg/l
Fish (LC50), 96 h: 1 mg/l
Fish (LC50), 96 h: 1.4 to 3.6 mg/l

2-Butoxyethanol

Ecotoxicity effects

Toxicity to fish LC50 *Poecilia reticulata*: 983 mg/l; 7 d; literature value

LC50 Bluegill sunfish: 1,490 mg/l; 96 h; literature value

LC50 *Pimephales promelas*: 2,137 mg/l; 96 h; literature value

Oncorhynchus mykiss (rainbow trout): > 1,000 mg/l; 96 h; literature value

Toxicity to daphnia and other aquatic invertebrates.

Daphnia magna: 1,720 mg/l; 24 h; literature value

Perfume

No data available on the mixture.

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:

mixture: n-Butane + i-Butane + Propane

No data available

Alcohols, C12-15, ethoxylated

Readily biodegradable

2-Butoxyethanol

No data available

Perfume

No data available on the mixture.

12.3. Bioaccumulative potential

No data available on the mixture.

Related to contained substances:

mixture: n-Butane + i-Butane + Propane

No data available

Alcohols, C12-15, ethoxylated

Log Pow: 3

Low bioaccumulation potential

2-Butoxyethanol

No data available

Perfume

No data available on the mixture.

12.4. Mobility in soil

No data available on the mixture.

Related to contained substances:

mixture: n-Butane + i-Butane + Propane
No data available

Alcohols, C12-15, ethoxylated
No data available

2-Butoxyethanol
No data available

Perfume
No data available on the mixture.

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

The waste must be disposed of in compliance with the regulations in force delivering empty containers for final disposal and equipped to safely handle pressurized containers containing flammable liquids and gas waste. The empty container heated to temperatures exceeding 70 ° C can burst.

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

1950

ADR exemption because compliance with the following characteristics:

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

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

14.2. UN proper shipping name

AEROSOL flammable, corrosive

14.3. Transport hazard class(es)

Class : 2

Label : 2.1+8



Tunnel restriction code : D
Limited quantities : 1 L
EmS : F-D, S-U

14.4. Packing group

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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, 6.1. Personal precautions, protective equipment and emergency procedures, 6.3. Methods and material for containment and cleaning up, 7.2. Conditions for safe storage, including any incompatibilities, 8.1. Control parameters, 8.2. Exposure controls, 10.1. Reactivity, 11.1. Information on toxicological effects, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 14.2. UN proper shipping name, 14.3. Transport hazard class(es)

Description of the sentences of risk set out in paragraph 3

- R12 = Extremely flammable.
- R20 = Harmful by inhalation.
- R21 = Harmful in contact with skin.
- R22 = Harmful if swallowed.
- R36 = Irritating to eyes.
- R38 = Irritating to skin.
- R41 = Risk of serious damage to eyes.
- R43 = May cause sensitization by skin contact.

R50 = Very toxic to aquatic organisms.
R51 = Toxic to aquatic organisms.
R53 = May cause long-term adverse effects in the aquatic environment.

Description of the hazard statements exposed to point 3

H220 = Extremely flammable gas.
H280 = Contains gas under pressure; may explode if heated.
H302 = Harmful if swallowed.
H318 = Causes serious eye damage.
H400 = Very toxic to aquatic life.
H312 = Harmful in contact with skin.
H315 = Causes skin irritation.
H319 = Causes serious eye irritation.
H332 = Harmful if inhaled.
H317 = May cause an allergic skin reaction.
H411 = Toxic to aquatic life with long lasting effects.

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.
