

AEROSOL DISPENSER FOR FIRE EXTINGUISHING PURPOSES, AD6-A/C

Issued on 11/06/2015 - Rel. # 2 on 02/01/2016

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In conformity to Regulation (EU) 2015/830

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

1.1. Product identifier

Product code : AEROSOL DISPENSER FOR FIRE EXTINGUISHING PURPOSES, AD6-A/C

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

Fire estinguish.

Sectors of use: Private households (= general public = consumers)[SU21], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against: Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

ANAF FIRE PROTECTION S.P.A.
Via del Commercio, 4
27020 Torre d'Isola
Tel. 0039 (0)382 45 33
Fax: 0039 (0)382 92 02 79
e-mail: info@anaf.eu
Internet: www.anaf.eu

1.4. Emergency telephone number

Ing. Danilo Romano
Tel. 0039 (0)382 45 33

SECTION2. Hazards identification

2.1. Classification of the substance or mixture

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

Pictograms:
None

Hazard Class and Category Code(s):
Aerosol

Hazard statement Code(s):
H229 - Pressurised container: May burst if heated.

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.

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2.2. Label elements

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

Pictogram, Signal Word Code(s):
- Warning

Hazard statement Code(s):
H229 - Pressurised container: May burst if heated.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:

General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 - Do not pierce or burn, even after use.

Storage

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Content of VOC ready to use condition: 0,66 %

2.3. Other hazards

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

No information on other hazards

SECTION3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Identificativi
2-(2-BUTOXYETHOXY)ETHANOL	> 0,1 <= 1%	Eye Irrit. 2, H319	CE 603-096-00-8 CAS 112-34-5 EINECS 203-961-6 REACH 01-2119475104-44

SECTION4. First aid measures

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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):

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

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 medical advice is needed, have product container or label at hand.

SECTION5. Firefighting measures

5.1. Extinguishing media

Irrelevant.

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

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6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the surrounding area recalling that any overheating could project the cylinder at a considerable distance.
Wear 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 gloves and protective clothing
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:

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Use extreme caution when handling the product. Avoid shock or friction.
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.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

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.

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7.3. Specific end use(s)

Follow the rules of good hygiene in the workplace.

SECTION8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

2-(2-BUTOXYETHOXY)ETHANOL:

TLV-TWA: 10ppm; 67,5mg/m³ (2006/15/EC).

TLV-STEL: 15ppm; 101,2mg/m³ (2006/15/EC).

MAK: 100 mg/m³ peak limitation category: I (1) Pregnancy risk group: C (DFG 2003).

- Substance: 2-(2-BUTOXYETHOXY)ETHANOL

DNEL

Systemic effects Long term Workers inhalation = 67,5 (mg/m³)

Systemic effects Long term Workers dermal = 20 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 34 (mg/m³)

Systemic effects Long term Consumers dermal = 10 (mg/kg bw/day)

Systemic effects Short term Consumers oral = 1,25 (mg/kg bw/day)

Local effects Long term Workers inhalation = 67,5

Local effects Long term Consumers inhalation = 34 (mg/m³)

Local effects Short term Consumers inhalation = 50,6 (mg/m³)

PNEC

Sweet water = 1 (mg/l)

sediment Sweet water = 4 (mg/kg/sediment)

Sea water = 0,1 (mg/l)

sediment Sea water = 0,4 (mg/kg/sediment)

intermittent emissions = 3,9 (mg/l)

STP = 200 (mg/l)

ground = 0,4 (mg/kg ground)

8.2. Exposure controls



Appropriate engineering controls:

Observe the safety measures used in handling chemicals.

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)

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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.

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
Appearance	Spray
Odour	Not applicable
Odour threshold	Undefined
pH	Undefined
Melting point/freezing point	Undefined
Initial boiling point and boiling range	Undefined
Flash point	Undefined
Evaporation rate	Undefined
Flammability (solid, gas)	Undefined
Upper/lower flammability or explosive limits	Undefined
Vapour pressure	Undefined
Vapour density	Undefined
Relative density	Undefined
Solubility	Undefined
Water solubility	Undefined
Partition coefficient: n-octanol/water	Undefined
Auto-ignition temperature	Undefined
Decomposition temperature	Undefined
Viscosity	Undefined
Explosive properties	Undefined
Oxidising properties	Undefined
Container volume	1000cc
Product volume	600cc
Pressure to 20°C	11bar
Deformation pressure	Not determined
Burst pressure of the container	Not determined
Flash point of liquid phase	Irrelevant

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Physical and chemical properties	Value
Propellent inflammability	Irrelevant

9.2. Other information

Content of VOC ready to use condition: 0,66 %

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

The aerosol product is stable for a period exceeding 36 months and in normal storage conditions can not take place dangerous reactions as the container is almost hermetically sealed.
To avoid that the metal container can deteriorate, keep away from acidic or basic products. Attention to the heat as temperatures exceeding 50 ° C has increased pressure inside the container that gets to deformation of the cylinder until the outbreak.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞

(a) acute toxicity: 2-(2-BUTOXYETHOXY)ETHANOL: Acute hazards/symptoms;

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Skin: dry scalp.

Eye: Eye Redness. Pain.

- (b) skin corrosion/irritation 2-(2-BUTOXYETHOXY)ETHANOL: Irritating.
- (c) serious eye damage/irritation: based on available data, the classification criteria are not met.
- (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: 2-(2-BUTOXYETHOXY)ETHANOL: The substance 'irritating to eyes
- (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:

2-(2-BUTOXYETHOXY)ETHANOL:

A harmful contamination of air sar reached slowly for evaporation of this substance at 20°C; However, for spraying or scattering, much more quickly.

The liquid degreasing the skin features.

LD50 (rat) Oral (mg/kg body weight) = 2410

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2764

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

Related to contained substances:

2-(2-BUTOXYETHOXY)ETHANOL:

Toxic for fish:

LD50 (83d) = 1300mg/L

Toxic to invertebrates:

EC50 (48 h) = 100 mg/L (Daphnia magna)

Toxic for algae:

EC50 (192h) = 53mg/L

C(E)L50 (mg/l) = 100

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

12.2. Persistence and degradability

Related to contained substances:

2-(2-BUTOXYETHOXY)ETHANOL:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

12.3. Bioaccumulative potential

No data available.

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12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No adverse effects

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. Operate according to local or national regulations

SECTION14. Transport information**14.1. UN number**

1950

**14.2. UN proper shipping name**

AEROSOL asphyxiant

14.3. Transport hazard class(es)

Class : 2

Label : 2.2

Tunnel restriction code : E

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

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14.6. Special precautions for user

The goods must be transported by vehicles authorized to transport of dangerous goods according to the current edition of ADR requirements and applicable national regulations.

The goods must be in original packing, however, in packaging made of materials resistant to their content and not likely to generate with this dangerous reactions. People loading and unloading dangerous goods must be trained on the risks from these substances and that must be taken in case 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

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

Reg (EC) n. 1907/2006 (REACH), Reg (EC) n. 1272/2008 (CLP), Reg (EC) n. 453/2010 (Requirements for the compilation of safety data sheets), Reg (E) n.790/2009, Dir 96/82/EC as amended.

15.2. Chemical safety assessment

The supplier has made an assessment of chemical safety

SECTION 16. Other information**16.1. Other information**

Description of the hazard statements exposed to point 3
H319 = Causes serious eye irritation.

Classification based on data of all mixture components

Regulatory information:
Dir 67/548 29° Amendment
Dir 1999/45/EC e s.a.a.
Dir 2001/60/EC
Reg 1907/2006 EC
Reg 1272/2008 EC
Reg 453/2010 EC

NOTICE TO USERS

The information contained in this sheet are based on the knowledge available at the date of the preparation of this sheet.

The user must be aware of the possible risks associated with the use of the product, other than that for which the product is supplied. The sheet does not exonerate the user from knowing and applying all the regulations governing its activities. The set of regulations mentioned is simply to help the user to fulfill its obligations regarding the use of hazardous products.

This sheet does not exonerate the user from other legal obligations than those mentioned and from rules regulating

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possession and use of the product, since the user is the only responsible.

*** This sheet supersedes all previous editions.
