

SAFETY DATA SHEET A32/ABC

Issuen on 16/07/2014 - Rev. n. 5 on 07/07/2017 – 10.5

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According to UE Regulation no. 830/2015 dated 28.05.2015.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trades name: A32/ABC

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

Advised against: Powder fire extinguisher.

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

PS1 = 1 kg fire extinguisher (9bar), fire classes A-B-C

PS4 = 4 kg fire extinguisher (13bar), fire classes A-B-C

PS6 = 6 kg fire extinguisher (13bar), fire classes A-B-C

PS9 = 9 kg fire extinguisher (13bar), fire classes A-B-C

PG1 = 1 kg extincteur à pression auxiliaire, feu A-B-C

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

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Pictograms: **None**

Hazard Class and Category Code(s): **Non hazardous**

Hazard statement Code(s): Non hazardous

Contains gas under pressure, attention may explode if heated. Do not drill or expose to open flame.

The classification refers to the contents of the extinguisher

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram, Signal Word Code(s): **None**

Hazard statement Code(s): None

Precautionary statements: *Non hazardous*

2.3. Other hazards

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

The preparation is in the form of fine powder, easily form suspensions in air in movement and may create aerosols. Prolonged exposure to any type of powder can be potentially harmful. There are no previous episodes of acute oral

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Composizione/informazioni sugli ingredienti

Substance	Conc. %	Classification	Classification	REECh
		Dir 67/548	Reg 1272/08	
AMMONIUM SULFATE	50 ÷ 100	NC	NC	CEE: CAS: EINECS: REACH: -
AMMONIUM PHOSPHATE MONOBASIC	20 ÷ 30	NC	NC	7783-20-2 231-984-1 ND CEE: CAS: EINECS REACH: -
				7722-76-1 231-764-5 01-2119488166-29

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:

In case of leakage of the powder product may appear tingling, trouble in coughing or sneezing. 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:

Do not induce vomiting or emesis. Seek immediate medical assistance.

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 SWALLOWED you feel unwell: Call a POISON CENTER or physician.

IF exposed or possible exposure, consult a physician.

If irritation or rash occurs: Get medical advice.

If experiencing respiratory symptoms: Call a POISON CENTER or physician.

If you feel unwell, seek medical advice.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

The mixture is a fire extinguisher agent for fires of class A, B and C.

5.2. Special hazards arising from the substance or mixture

Manufactured under pressure in sealed metal container. 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

Specific methods of firefighting: open doors and Windows of the room to allow maximum ventilation. Do not breathe vapors (toxic). Ask a favour of the wind in relation to the fire.

Pour cold water containers exposed to flames until the fire will not be extinct.

Special protection in the fight against fire: in case of presence of vapors use a self-contained breathing apparatus. Place of fire debris and contaminated water in accordance with official regulations.

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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Wear gloves and protective clothing.

6.1.2 For emergency responders:

Wear 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.

If the product has flowed into the water, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Dispose of waste in compliance with current 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

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1 Recommendations

Obtain special instructions before use.

7.1.2 Cautions concerning general hygiene

Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. The Contaminated work clothing should not be allowed out of the workplace.

For exposure control and individual protection measures, see section 8.

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.

Storage temperature -30°C/+60°C. Do not store if partially used.

7.3. Specific end use(s)

Multipurpose powder for fire extinguisher approved for the extinction of fire of class A, B and C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

AMMONIUM SULFATE					
DNEL Systemic effects	Workers			Population	
	Inhalation (mg/m ³)	Dermic (mg/kg bw/day)	Oral (mg/kg bw/day)	Inhalation (mg/m ³)	Dermic (mg/kg bw/day)
Long term	11,17	42,67	6,4	1,67	12,8
Short term					
DNEL Local effects	Workers			Population	
	Inhalation (mg/m ³)	Dermic (mg/kg bw/day)	Oral (mg/kg bw/day)	Inhalation (mg/m ³)	Dermic (mg/kg bw/day)
Long term				20	
Short term					

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<i>PNEC</i>							
Freshwater (mg/L)	Fw Sediments (mg/kg/sedim)	Seawater (mg/L)	Sw Sediments (mg/kg/sedim)	Intermittent em. (mg/L)	STP (mg/L)	Soil (mg/kg soil)	Air (mg/m ³)
0,312	0.063	0,0312		0,53	16,18	62.6	

AMMONIUM PHOSPHATE MONOBASIC							
<i>DNEL</i> Systemic effects	Workers			Population			
	Inhalation (mg/m ³)	Dermic (mg/kg bw/day)	Oral (mg/kg bw/day)	Inhalation (mg/m ³)	Dermic (mg/kg bw/day)		
Long term	6,1	34,7	2,1	1,8	20,8		
Short term							
<i>DNEL</i> Local effects	Workers			Population			
	Inhalation (mg/m ³)	Dermic (mg/kg bw/day)	Oral (mg/kg bw/day)	Inhalation (mg/m ³)	Dermic (mg/kg bw/day)		
Long term				20			
Short term							
<i>PNEC</i>							
Freshwater (mg/L)	Fw Sediments (mg/kg/sedim)	Seawater (mg/L)	Sw Sediments (mg/kg/sedim)	Intermittent em. (mg/L)	STP (mg/L)	Soil (mg/kg soil)	Air (mg/m ³)
1,7		0,17		17			






8.2. Exposure controls

Appropriate engineering controls:

Hygienic controls: Avoid high concentrations of dust and calibrate the ventilation where necessary.

During handling do not eat, do not drink and do not smoke. Wash hands after handling and before eating, drinking or smoking. At the end of the workday using the sink.

Individual protection measures:

Eye / face protection:	When handling the pure product use safety glasses (spectacles cage) (EN 166).	
Hand protection:	Not needed for normal use.	
Other:	When handling the pure product wear full protective skin clothing.	
Respiratory protection:	Not needed for normal use	
Other:	Safety shoes	
Thermal hazards:	No hazard to report	

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 properties

Physical and chemical properties	Value
Appearance	Fine powder contained in a tank
Odour	Odorless
Odour threshold	Irrelevant
pH	4.5-6.0 (0,1% in H ₂ O)
Melting point/freezing point	>190°C
Initial boiling point and boiling range	Irrelevant
Flash point	Irrelevant
Evaporation rate	Irrelevant

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Flammability (solid, gas)	Non flammable
Upper/lower flammability or explosive limits	Irrelevant
Vapor pressure	Irrelevant
Vapor density	Irrelevant
Relative density	1.65-1.85 g/cm ³ (apparent 0.82-0.96 g/cm ³)
Solubility	Not determined
Water solubility	Partially soluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Irrelevant
Decomposition temperature	190°C
Viscosity	Irrelevant
Explosive properties	Non-explosive
Oxidizing properties	Not determined

9.2. Other information

COV=0%.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No risk of reactivity.

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

When it reaches temperatures above 190°C decomposes dispersing ammonia.
Contamination with incompatible materials.

10.4. Conditions to avoid

Shock or permanent deformation.
Keep at temperature ranging from -30°C to + 60°C.
Proximity to sources of heat or fire.
Contamination with incompatible materials.
Heating content. When heated at 190°C decomposes to produce gas.
Welding works or heating in the devices or systems that may contain product residues.

10.5. Incompatible materials

Alkali, strong acids.
Strong oxidizers (chlorates, nitrates and nitrites) and bases.

10.6. Hazardous decomposition products

Produce ammonia when it reacts with strong bases. See Sections 2 and 9. When strongly heated it decomposes releasing toxic gases (eg NO_x, ammonia, SO₂ and SO₃). When in contact with alkaline materials such as lime or caustic soda can produce ammonia gas.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

ATE(mix) oral = 0,0 mg/kg
ATE(mix) dermal = 0,0 mg/kg
ATE(mix) inhal = 0,0 mg/l/4 h

(a) acute toxicity	AMMONIUM PHOSPHATE MONOBASIC: NOAEL = 250mg/bw kg/day
(b) skin corrosion/irritation	Not applicable
(c) serious eye damage/irritation	Not applicable

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(d) respiratory or skin sensitization	Not applicable
(e) germ cell mutagenicity	Not applicable
(f) carcinogenicity	AMMONIUM SULFATE: NOAEL= 284 mg/bw kg/day
(g) tossicità riproduttiva	AMMONIUM SULFATE: NOAEL= 1500 mg/bw kg/day AMMONIUM PHOSPHATE MONOBASIC: NOAEL ≥1500mg/bw kg /day
(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:

AMMONIUM SULFATE		
LD50	2000mg/kg bw	Oral (rat)
LD50	>2000 mg/kg bw	Dermal (rat or rabbit)
CL50	>1000 mg/L/4h powder	Inhalation (rat)

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Related to contained substances:

AMMONIUM SULFATE

Acute toxic:

LC50 = 53mg/L (fish, Oncorhynchus mykiss, 96h)

EC50 = 168,8 mg/L (Invertebrate, Daphnia magna, 18d)

EC50 = 2700mg/L (algae, Chlorella vulgaris, 96h)

AMMONIUM PHOSPHATE MONOBASIC

Acute toxicity:

LC50>85,9mg/L (fish, Oncorhynchus mykiss, 96h)

LC50=1825-1970mg/L (crostaceous, Daphnia carinata, 72h)

NOEC>97,1mg/L (algae, Selenastrum capricornutum, 72h)

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

12.2. Persistence and degradability

Related to contained substances:

AMMONIUM PHOSPHATE MONOBASIC

Readily degradable

12.3. Bio accumulative potential

No data available

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

The soil bacteria convert ammonia to nitrate, which can be absorbed by plants or denitrified by microorganisms in nitrogen and nitrous oxide. In water, the ions of ammonium and phosphate can cause eutrophication, which increased growth of algae. The decomposition of the algae can reduce the oxygen which, if significant, could result in asphyxiation of other aquatic organisms.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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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

14. TRANSPORT INFORMATION

14.1. UN number

1044



14.2. UN proper shipping name

EXTINGUISHERS with a compressed or liquefied gas.

14.3. Transport hazard class(es)

Class : 2

Label : 2.2

14.4. Packing group

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14.5. Environmental hazards

ADR/RID: no

MDG Code: no

ATA-DGR/ICAO-TI: no

14.6. Special precautions for user

Fire extinguishers are not considered hazardous for ADR (road transport) if packaged as SP594.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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 (E) n.790/2009, Dir 96/82/EC as amended.

15.2. Chemical safety assessment

The supplier did not have made a chemical safety assessment

16. OTHER INFORMATION

16.1. Other information

Description of the sentences of risk set out in paragraph 3

None

Description of the hazard statements exposed to point 3

None.

Classification based on data of all components of the mixture

Regulatory information:

Dir 67/548 e s.a.a.

Dir 2001/60/CE

Reg 1907/2006 CE e s.a.a.

Reg 1272/2008 CE e s.a.a.

Do not use the product for purposes other than those listed in the Specifications.

NOTICE TO USERS

The information contained herein is based on the knowledge available at the date of completion relating to requirements for safety, health, environmental protection and proper use of the product. The user must be aware of the possible risks associated with use of the product other than that for which the product is shipped. The card is not in any way excuse the user from knowing and applying all the

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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 does not exonerate the user from ensuring that legal obligations other than those mentioned, regolamentanti possession and use of the product is solely responsible.

*** This sheet replaces any previous edition.
