

# ABC extinguisher

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 2016/06/13

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Supersedes: 2016/06/13

Version: 01.01

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Trade name : ABC extinguisher  
Product code : 328/507  
Product group : Trade product  
BIG no : 10648

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use  
Use of the substance/mixture : Fire extinguishing medium

##### 1.2.2. Uses advised against

Restrictions on use : Any other intended applications should be discussed with the manufacturer

#### 1.3. Details of the supplier of the safety data sheet

Belmic Bvba  
Assesteeweg 117/2

B-1740 Ternat

Tel.: +32 (0)2 460 62 10  
E-mail: belmic@belmic.com  
Mrs. Sarah Petit

#### 1.4. Emergency telephone number

Emergency number : +32 (0)70 245 245  
Anti-poison Center

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

Full text of H-statements see section 16.

##### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation.

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazardous ingredients

: ammonium dihydrogenorthophosphate; Ammonium sulphate

Hazard statements (CLP)

: H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

Precautionary statements (CLP)

: P271 - Use only outdoors or in a well-ventilated area  
P312 - Call a POISON CENTER if you feel unwell  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ammonium dihydrogenorthophosphate	(CAS No) 7722-76-1 (EC no) 231-764-5	38 - 42	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Ammonium sulphate	(CAS No) 7783-20-2 (EC no) 231-984-1	38 - 42	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Silicon Dioxide	(CAS No) 7631-86-9 (EC no) 231-545-4	<= 3	Not classified

Comments

: Contains :  
Silica, respirable crystalline  
<1% fine fraction

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: If you feel unwell, seek medical advice.

First-aid measures after inhalation

: Remove victim to fresh air. If irritation persists, consult a doctor.

First-aid measures after skin contact

: Wash immediately with plenty of soap and water. If irritation persists, consult a doctor.

First-aid measures after eye contact

: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor/medical service.

First-aid measures after ingestion

: If swallowed, rinse mouth with water (only if the person is conscious). Drink plenty of water. Victim is fully conscious: immediately induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment.  
Unsuitable extinguishing media : None known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Non combustible.  
Explosion hazard : Not applicable.  
Reactivity in case of fire : Evolution of fumes.  
Hazardous decomposition products in case of fire : ammonia. Phosphorous oxide.

### 5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Consider evacuation.  
Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat.  
Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.  
Other information : Avoid dust formation. Avoid release to the environment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

#### 6.1.1. For non-emergency personnel

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".  
Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

#### 6.1.2. For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.  
Methods for cleaning up : Stop dust cloud by humidifying with water. Scoop solid spill into closing containers. Wash down leftovers with plenty of water.  
Other information : Avoid dust formation.

### 6.4. Reference to other sections

Reference to other sections (8, 13). SECTION 7.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : None under normal use. Potential dust explosion hazard.  
Precautions for safe handling : Thoroughly clean/dry the installation before use. Avoid raising dust. Keep container tightly closed. Ensure good ventilation of the work station.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Use grounded electrical/mechanical equipment.  
Storage conditions : Keep container tightly closed and in a well-ventilated place. Keep container tightly closed to avoid moisture absorption and contamination.  
Incompatible products : Keep away from reducing agents/(strong) acids /(strong) bases. Moisture.  
Incompatible materials : None known.  
Heat and ignition sources : Protect from heat and direct sunlight.  
Information on mixed storage : oxidizing agents. (strong) acids. water/moisture.  
Storage area : Store in a dry area. Keep out of direct sunlight.  
Special rules on packaging : hermetical. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

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### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

ABC extinguisher		
EU	IOELV STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> respirable dust

### 8.2. Exposure controls

#### Appropriate engineering controls:

General exposure limit for inhalable particulate matter. If possible with source exhaust and good ventilation.

#### Personal protective equipment:

Dust production: dust mask with filter type P1. Dustproof clothing. In case of dust production: protective goggles. Gloves.

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing

#### Eye protection:

Safety glasses

#### Skin and body protection:

Complete protective clothing

#### Respiratory protection:

Ensure adequate ventilation. Dust production: dust mask with filter type P1



#### Thermal hazard protection:

On heating: self-contained breathing apparatus.

#### Environmental exposure controls:

Assure that emissions are compliant with all applicable air pollution control regulations. Refer to all applicable national, international and local regulations or provisions.

#### Other information:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: Yellow. Blue. pink.
Odour	: odourless.
Odour threshold	: Not determined due to potential health hazard by inhalation
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable

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Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: Not determined
Relative density	: Not determined
Density	: Not determined
Solubility	: Moderately soluble in water.
Log Pow	: Not determined
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.
Oxidising properties	: Not applicable.
Explosive limits	: Not applicable

### 9.2. Other information

Minimum ignition energy	: Not applicable
VOC content	: Not determined
Bulk density	: Not determined
Other properties	: If necessary, information on other physical and chemical parameters is indicated in this section.
Additional information	: No further information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal conditions. Polymerisation: none.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

acids and bases. Strong oxidizers.

### 10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Ammonia. Phosphorus oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

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LD50 oral rat	2840 mg/kg
Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)

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Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Potential adverse human health effects and symptoms	: Dust may cause mechanical irritation.
Other information	: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Do not allow the product to be released into the environment.
Acute aquatic toxicity	: Not classified (Based on available data, the classification criteria are not met)
Chronic aquatic toxicity	: Not classified (Based on available data, the classification criteria are not met)

#### 12.2. Persistence and degradability

<b>ABC extinguisher</b>	
Persistence and degradability	No (test)data on mobility of the substance available.

#### 12.3. Bioaccumulative potential

<b>ABC extinguisher</b>	
Log Pow	Not determined
Bioaccumulative potential	No bioaccumulation data available.

#### 12.4. Mobility in soil

<b>ABC extinguisher</b>	
Ecology - soil	No specific data.

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other adverse effects	: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
Additional information	: No other effects known. The product has not been tested. The statement has been derived from the properties of the individual components.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Collect all waste in suitable and labelled containers and dispose according to local legislation.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump. Do not discharge into the sewer. Do not discharge into surface water. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.
Additional information	: Handle uncleaned empty containers as full ones. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
Ecology - waste materials	: Disposal through controlled incineration or authorised waste dump.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

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### 14.6. Special precautions for user

#### - Overland transport

Not regulated

#### - Transport by sea

Not regulated

#### - Air transport

Not regulated

#### - Inland waterway transport

Not regulated

#### - Rail transport

Not regulated

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : Not determined

Other information, restriction and prohibition regulations : Ensure all national/local regulations are observed. No further information available. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

#### 15.1.2. National regulations

No additional information available

Users should ensure that they comply with any relevant local, provincial or national legislation.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:

Revised SDS according to Commission Regulation (EU) N°2015/830.

Section	Changed item	Change	Comments
9		Added	
16	Additional information	Added	

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

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LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : Manufacturer/Supplier. Authoring: . Quick.MSDS Sprl - Belgium info@quickmsds.de +32 (0) 479 469 465.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : No further information available.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

MSDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*