ABC powder extinguisher

Safety Data Sheet

According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)
SDS Reference Number: QM659
Issue date: 6/13/2016 Revision date: 4/28/2025 Supersedes version of: 9/5/2022 Version: 3.00

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	ABC powder extinguisher
Product code	:	328/507
Product group	:	Trade product

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

Relevant identified uses

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

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
Head office & warehouse: Preflexbaan 152

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	:	Not applicable

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

None under normal conditions.

2.2. Label elements

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

EUH-statements	:	EUH210 - Safety data sheet available on request.

2.3. Other hazards

Other hazards which do not result in classification	:	None under normal conditions. May be dangerously slippery if spilled. May cause mechanical irritation.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	QUARTZ (14808-60-7)

Component	
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	QUARTZ (14808-60-7)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
QUARTZ substance with a Community workplace exposure limit	CAS-No.: 14808-60-7 EC-No.: 238-878-4 REACH-no: Exempted	≤ 3	Not classified

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice. Wash hands, forearms and face thoroughly after handling.

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. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Immediately call a POISON CENTER/doctor. Drink plenty of water. Do not induce vomiting without medical advice. If vomiting occurs, keep head lower than hips to prevent aspiration.

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

Symptoms/effects : High dust concentration may result in irritation of the mucous membranes (eyes or respiratory tract).

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

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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.

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.

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. Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

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 agent. 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.

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

National occupational exposure and biological limit values

ABC powder extinguisher	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL STEL	10 mg/m³ respirable dust

QUARTZ (14808-60-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Silica crystaline (Quartz)
IOEL TWA	0.05 mg/m³ (respirable dust)
IOEL STEL	4 mg/m³ respirable dust
Remark	(Year of adoption 2003)
Regulatory reference	SCOEL Recommendations

DNEL and PNEC

European Union Legislation : Does not contain components with substance specific occupational exposure limits.

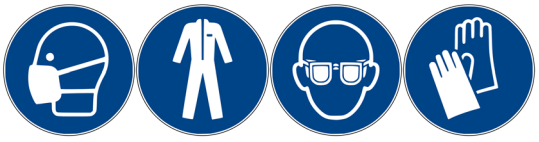
8.2. Exposure controls

Appropriate engineering controls

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

Personal protection equipment

Personal protective equipment:
Dust production: dust mask with filter type P1. Dustproof clothing. In case of dust production: protective goggles. gloves.
Personal protective equipment symbol(s):



Eye and face protection

Eye protection:
In case of dust production: protective goggles

Skin protection

Skin and body protection:
Complete protective clothing. In case of dust production: head/neck protection

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

Respiratory protection

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

Thermal hazards

Thermal hazard protection:
On heating: self-contained breathing apparatus.

Environmental exposure controls

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
Colour	:	Blue.
Appearance	:	Powder.
Odour	:	odourless.
Odour threshold	:	Not determined
Melting point	:	Not applicable
Freezing point	:	Not applicable
Boiling point	:	Not applicable
Flammability	:	Non flammable.
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.
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not determined
pH	:	Not applicable
pH solution	:	Not available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	Not applicable
Solubility	:	Moderately soluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Partition coefficient n-octanol/water (Log Pow)	:	Not determined
Vapour pressure	:	Not applicable
Vapour pressure at 50°C	:	Not available
Density	:	Not determined
Relative density	:	Not determined
Relative vapour density at 20°C	:	Not determined
Particles size :	:	Not available

9.2. Other information

Other safety characteristics

Minimum ignition energy	:	Not applicable
Relative evaporation rate (butylacetate=1)	:	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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
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)

ABC powder extinguisher	
LD50 oral rat	2840 mg/kg

QUARTZ (14808-60-7)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation : Not classified
pH: Not applicable

QUARTZ (14808-60-7)	
pH	5 – 8 @20°C

Serious eye damage/irritation : Not classified
pH: Not applicable

QUARTZ (14808-60-7)	
pH	5 – 8 @20°C

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)
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

ABC powder extinguisher	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

Other information

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.
Hazardous to the aquatic environment, short–term (acute)	:	Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long–term (chronic)	:	Not classified (Based on available data, the classification criteria are not met)

12.2. Persistence and degradability

ABC powder extinguisher	
Persistence and degradability	No (test)data on mobility of the substance available.

QUARTZ (14808-60-7)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

ABC powder extinguisher	
Partition coefficient n-octanol/water (Log Pow)	Not determined
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

ABC powder extinguisher	
Ecology - soil	No specific data.

12.5. Results of PBT and vPvB assessment

ABC powder extinguisher
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	QUARTZ (14808-60-7)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	QUARTZ (14808-60-7)

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. 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.

ABC powder extinguisher	
Other 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 waste regulation : 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.

Ecological waste information : Disposal through controlled incineration or authorised waste dump.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
NOT SUBJECT			NOT SUBJECT	
14.1. UN number or ID number				
Not applicable	UN 1044	UN 1044	Not applicable	UN 1044
14.2. UN proper shipping name				
Not applicable	FIRE EXTINGUISHERS	Fire extinguishers	Not applicable	FIRE EXTINGUISHERS
Transport document description				
Not applicable	UN 1044 FIRE EXTINGUISHERS, 2.2	UN 1044 Fire extinguishers, 2.2	Not applicable	UN 1044 FIRE EXTINGUISHERS, 2.2
14.3. Transport hazard class(es)				
Not applicable	2.2	2.2	Not applicable	2.2
Not applicable			Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

ADR	IMDG	IATA	ADN	RID
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-C EmS-No. (Spillage): S-V	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport
No data available

Transport by sea

Transport regulations (IMDG)	:	Not subject
Special provisions (IMDG)	:	225
Limited quantities (IMDG)	:	120 ml
Excepted quantities (IMDG)	:	E0
Packing instructions (IMDG)	:	P003
Special packing provisions (IMDG)	:	PP91
Stowage category (IMDG)	:	A
Properties and observations (IMDG)	:	Fire extinguishers, containing compressed or liquefied gases under pressure above 175 kPa for expelling fire-extinguishing contents.

Air transport

Transport regulations (IATA)	:	Not subject
PCA Excepted quantities (IATA)	:	E0
PCA Limited quantities (IATA)	:	Forbidden
PCA limited quantity max net quantity (IATA)	:	Forbidden
PCA packing instructions (IATA)	:	213
PCA max net quantity (IATA)	:	75kg
CAO packing instructions (IATA)	:	213
CAO max net quantity (IATA)	:	150kg
Special provisions (IATA)	:	A19
ERG code (IATA)	:	2L

Inland waterway transport
No data available

Rail transport

Transport regulations (RID)	:	Not subject
Classification code (RID)	:	6A
Special provisions (RID)	:	225, 594
Limited quantities (RID)	:	120ml
Excepted quantities (RID)	:	E0
Packing instructions (RID)	:	P003
Special packing provisions (RID)	:	PP91
Mixed packing provisions (RID)	:	MP9
Transport category (RID)	:	3
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW9
Colis express (express parcels) (RID)	:	CE2
Hazard identification number (RID)	:	20

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

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.

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : Not determined

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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 for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes:
Revision - See : *.

Indication of changes

Section	Changed item	Comments
3	Composition/information on ingredients	**Modified**
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
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 Rail
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@quick-msds.be +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:	
EUH210	Safety data sheet available on request.

Safety Data Sheet (SDS), EU

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.