



SDS number: SDS/079143/079001/1.0/EN
Issue date: 14-06-2022
Revision date: 14-06-2022
Version number: 1.0

SAFETY DATA SHEET

[According to Regulation (EC) No. 1907/2006 (REACH)]

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

1.1 Product identifier

Trade name: SB6P, SB9P
Other name: AB Class Foam Fire Extinguisher

(This SDS covers the mixture - Imprex FF EcoB and CO₂ used as the propellant in pressurized container.)

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

Relevant identified uses: Fire extinguisher for use on class A and B fires
Uses advised against: Not determined

1.3 Details of the supplier of the safety data sheet

Manufacturer / supplier: Carrier Manufacturing Poland Sp. z o.o.
Address: ul. Kolejowa 24, 39-100 Ropczyce, Poland
Telephone number: +48 17 221 02 02
Fax: +48 17 221 02 48
e-mail address of competent person responsible for the SDS: msds-rop@carrier.com

1.4 Emergency Telephone Number

European Union emergency phone number:
112 - in case of poisoning - ask for Poison Information (24 hours a day, 7 days a week).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Press. Gas, H280

Mixture classified as not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.1.2 Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

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

Hazard pictograms:



Signal word:

Warning

Hazard Statements:

H280: Contents under pressure; may explode if heated.

Precautionary statements:

P403: Store in a well-ventilated place.

Further information:

Explosion risk in case of fire.

Supplemental Hazard information (EU):

Not applicable.

2.3 Other hazards

Within expanded foam respiration is not possible, danger of suffocation!

SECTION 3: Composition / information on ingredients

3.1 Substances

Propellant (CO₂):

CAS No	EC No	REACH Registration No	Concentration [%] (w/w)	Name	Classification according to Regulation (EC) No 1272/2008 (CLP)
124-38-9	204-696-9	Listed in Annex IV of Regulation (EC) No 1907/2006 (REACH) - exempted from registration	≤ 100	Carbon dioxide	Press. Gas (Liq.), H280

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3.2 Mixtures

Mixture classified as not hazardous according to Regulation (EC) No 1272/2008 (CLP).

CAS No	EC No	REACH Registration No	Concentration [%] (w/w)	Name	Classification according to Regulation (EC) No 1272/2008 (CLP)
2634-33-5	220-120-9		< 0,05	1,2- benzotriazol- 3(2H) -one	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

Further information:

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Components of the pressurized container contains Lead CAS No: 7439-92-1 in a concentration greater than 0.1% (w/w).

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes: ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Following inhalation: in case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

Following skin contact: after contact with skin, wash immediately with plenty of water and soap. Consult a doctor if disturbing symptom occur.

Following eye contact: immediately flush eyes with large amounts of water. If irritation occurs, get medical assistance.

Following ingestion: if accidentally swallowed rinse the mouth with plenty of water. Never give anything by mouth to an unconscious person. Contact a doctor if disturbing symptom occur.

Self-protection of the first aider: use personal protective equipment as required.

4.2 Most important symptoms and effects, both acute and delayed

Irritation and etching.

4.3 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: this product is not flammable. Use extinguishing agent suitable for type of surrounding fire, product is used for fire extinguishing.

Unsuitable extinguishing media: none, product is used for fire extinguishing.

5.2 Special hazards arising from the substance or mixture

At high temperature concentrate gives toxic products. Thermal decomposition of usage concentrations does not present a hazard.

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5.3 Advice for firefighters

Protection during firefighting: do not enter fire area without proper protective equipment. Avoid contact with water reactive materials, burning metals and electrically energized equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Use appropriate respiratory protection. In case of large spills, isolate the exposed area. Avoid direct contact with skin and eyes.

6.2 Environmental precautions

Do not let the product to enter ground waters, drainage system, sewage and soil. Clean contaminated objects and areas thoroughly observing environmental regulations. Notify relevant emergency services. Treat the assimilated material according to the section on waste disposal.

6.3 Methods and material for containment and cleaning up

Soak up inert absorbent and dispose as waste requiring special observation. Use approved industrial vacuum cleaner for removal.

6.4 Reference to other sections

Appropriate conduct with waste product – SECTION 13. Personal protection equipment – SECTION 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Store in a well-ventilated place. Keep cool.

Incompatible products: Strong bases. Strong acids. Oxidizing agent. Strong reducing agents.

Heat and ignition sources: Avoid high temperatures. Protect from low temperatures.

Storage area: Keep container in a well-ventilated place. Keep away from heat and direct sunlight.

Special rules on packaging: Store in accordance with local, regional, national or international regulation. Keep only in original container.

Storage temperature 0°C / +60°C.

7.3 Specific end use(s)

No additional information available.

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Biological limit values: no biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures: follow standard monitoring procedures.

Substance: Carbon dioxide (CAS number: 124-38-9)

Country	Limit value - Eight hours		Limit value - Short term		Legal basis
	ppm	mg/m ³	ppm	mg/m ³	
European Union	5000	9000	-	-	Directive 2006/15/EC of 7 February 2006.
Austria	5000	9000	10000	18000	Limits Ordinance 2011, version of 13.02.2017.
Belgium	5000	9131	30000	54784	Federal Public Service Employment - List of limit values for exposure to chemical agents.
Bulgaria	5000	9000	-	-	Ordinance No. 13 of 30 December 2003 to protect workers from the risks related to exposure to chemical agents at work.
Croatia	5000	9000	-	-	Occupational Exposure Limits. Pursuant to Article 12 Paragraph 1 of the Law on Protection at Work ("Official Gazette", Nos. 59/96, 94/96, 114/03, 100/04, 86/08 and 116/08), the Minister of Economy, Labour and Entrepreneurship. Exposure limits set forth Hazardous Substances At Work And A Biological Limit Values.
Cyprus	5000	9000	-	-	Safety and Health at Work (Chemical Agents) Regulations of 2001.
Czech Republic	-	9000	-	45000	9/2013 Government Regulation of 20 December 2012 amending Regulation no. 361/2007 establishing the conditions of health protection at work.
Denmark	5000	9000	-	-	Order on limit values for substances and materials no. 986 of 11 October 2012, which came into force on 12 October 2012.
Estonia	5000	9000	-	-	Government of the Republic on 18 September 2001. A Regulation No. 293 "Occupational exposure limits".
Finland	5000	9100	-	-	Ministry of Health publications - TWA 2016 Workplace exposure limits and Social Affairs.
France	5000	9000	-	-	The National Institute for Research and Safety for the Prevention of Occupational Accidents and Diseases (INRS) - Occupational Exposure Limits to Chemical Agents in France.
Germany	5000	9100	-	-	Technical rules for hazardous substances. Committee for Hazardous

For more information, please check any national occupational exposure limit values in your country.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn. Observe good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Wash hands thoroughly before breaks and after work. Ensure adequate general and/or local ventilation in the workplace.

8.2.2 Personal protection equipment

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Personal protective equipment must meet requirements of directive 89/686/CE. Employer is obliged to ensure equipment adequate to activities carried out, with quality demands, cleaning and maintenance.

Hand and body protection:

Under normal conditions of work is not required.

Eye and face protection:

Avoid eye contact. Wear vented goggles.

Respiratory protection:

With correct and proper use, and under normal conditions, breathing protection is not required.

8.2.3 Environmental exposure controls

Avoid release to the environment, do not enter the sewage system. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Basic physical and chemical properties of:

	Mixture (Imprex FF EcoB)	Propellant (CO₂)
a) physical state/form:	liquid	gas
b) colour:	colourless to slightly yellow	colourless
c) odour:	characteristic	no odour
d) odour threshold:	no data available	not determined
e) pH:	6,0 - 9,0 (25°C)	not applicable
f) melting point/freezing point:	not applicable/ no data available	-78,5°C
g) initial boiling point and boiling range:	no data available	-56,6°C
h) flash point:	no data available	not applicable
i) evaporation rate:	not applicable	not applicable
j) flammability (solid, gas):	not applicable	not flammable
k) upper/lower flammability or explosive limits:	no data available	not applicable
l) vapour pressure:	no data available	57,3 bar [20°C]
m) vapour density:	not applicable	1,52
n) density:	1,01-1,07 g/cm ³ (25°C)	20 mg/l (water)
o) solubility(ies):	Water solubility	2000 mg/l soluble in water
p) partition coefficient n-octanol/water:	no data available	0,83
q) auto-ignition temperature:	no data available	not applicable
r) decomposition temperature:	no data available	not applicable
s) explosive properties:	no data available	not applicable
t) oxidising properties:	no data available	none
u) viscosity, dynamic:	1 – 5 cP	not applicable

9.2 Other information

Refractive index mixture: 1,33 – 1,37

Product contains gas under pressure.

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SECTION 10: Stability and reactivity

10.1 Reactivity

None/none.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None/none.

10.4 Conditions to avoid

Avoid elevated temperatures, sources of fire and heat.

10.5 Incompatible materials

No additional information available.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified
Skin corrosion/irritation	:	Not classified pH: 6 – 9
Serious eye damage/irritation	:	Not classified pH: 6 – 9
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

Other information: in susceptible individuals may cause eye and skin irritation. The mixture does not meet the classification criteria: irritation to skin and eyes, according to CLP Regulation.

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SECTION 12: Ecological information

12.1 Toxicity

Ecology – general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Not classified

IMPRES FF EcoB

LC50 - Fish [1]	1350 mg/l Zebra fish (Danio rerio)
EC50 - Daphnia [1]	900 mg/l Daphnia magna Straus
EC50 72h - Algae [1]	300 mg/l Scenedesmus subspicatus

12.2 Persistence and degradability

Product is readily biodegradable.

12.3 Bio accumulative potential

No additional information available.

12.4 Mobility in soil

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects

Propellant:

Effect on the ozone layer: none.

Global warming potential [CO₂=1]: 1.

Effect on global warming: when discharged in large quantities may contribute to the greenhouse effect.

Contains greenhouse gas not covered by Regulation (EC) 842/2006.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Regional legislation (waste): Disposal must be done according to official regulations.

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

14.1 UN Number

UN 1044

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14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Overland transport: Not applicable

Transport by sea: Not applicable

Air transport: Not applicable

Inland waterway transport: Not applicable

Rail transport: Not applicable

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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors

15.1.2. National regulations

France:

Occupational diseases

Code: Description

RG 65: Eczematiform lesions of allergic mechanism

RG 66: Occupational rhinitis and asthma

Germany

Water hazard class (WGK): WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV): Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

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SZW-lijst van kankerverwekkende stoffen: None of the components are listed
SZW-lijst van mutagene stoffen: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: None of the components are listed

Denmark

Danish National Regulations: Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Switzerland

Storage class (LK): LK 10/12 - Liquids

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral) - Acute toxicity (oral), Category 4
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute Hazard, Category 1
EUH208 - Contains 1,2-Benzisothiazol-3(2H)-one(2634-33-5). May produce an allergic reaction.
EUH210 - Safety data sheet available on request.
Eye Dam. 1 - Serious eye damage/eye irritation, Category 1
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H400 - Very toxic to aquatic life.
Skin Irrit. 2 - Skin corrosion/irritation, Category 2
Skin Sens. 1 - Skin sensitisation, Category 1

Abbreviations and acronyms:

AND - 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
BLV - Biological limit value
CAS-No. - Chemical Abstract Service number
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL - Derived Minimal Effect level
DNEL - Derived-No Effect Level
EC50 - Median effective concentration
EC-No. - European Community number
EN - European Standard
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC50 - Median lethal concentration
LD50 - Median lethal dose
LOAEL - Lowest Observed Adverse Effect Level

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NOAEC - No-Observed Adverse Effect Concentration
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
OEL - Occupational Exposure Limit
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
vPvB - Very Persistent and Very Bioaccumulative
WGK - Water Hazard Class

Trainings:

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and sources of data:

This SDS was prepared on the basis of sheets of the AB fire extinguishing mixture, literature data, online databases as well as our knowledge and experience, taking into account current legislation.

Additional information:

Classification was based on data on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP).

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.

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