

BlazeCut Automatic Fire Suppression System

Safety Data Sheet

BlazeCut Fluorine-free Foam

*According to Regulation (EU) No. 1907/2006 (REACH), Annex II
(COMMISSION REGULATION (EU) No 453/2010)*

Version: SDS-FFF-2403-EN

Product name: BlazeCut Fluorine-free Foam

Compilation date: 2022-02-09

Revision date: 2024-03-25

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

1.1 Product identifier

Product name: BlazeCut Fluorine-free Foam

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

Identified uses: Firefighting agent.

Uses advised against: The product should not be used in ways other than those referred to in Section 1.

1.3 Details of the supplier of the SDS

Supplier: BlazeCut Pty Ltd.
Address: Level 24, Three International Towers, 300 Barangaroo Avenue, Sydney,
NSW 2000, Australia
E-mail: technical@blazecutgroup.com
Telephone: +61 2 8006 1300

Distributor:
Address:
E-mail:
Telephone:

1.4 Emergency telephone number

+61 403 006 070 or call local emergency number.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

In compliance with Regulation (EC) No 1272/2008[CLP]

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

May produce an allergic reaction (EUH208).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2 Label elements

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

Hazard pictogram(s): GHS05: Corrosive



Signal word: Danger

Product identifiers: ALKYLSULFATE

Additional labelling:

EUH208

Contains PRESERVATIVE. May produce an allergic reaction.

Hazard statements :

H315

Causes skin irritation.

H318

Causes serious eye damage.

Precautionary statements - Prevention:

P264

Wash hands thoroughly after handling.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response:

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3 Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1 % published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3: Composition/information on ingredients

3.2 Mixture

CAS No	%[weight]	Name
111-76-2	5 <= x % < 15	2-butoxyethanol
-	2.5 <= x % < 10	alkylsulfate
-	2.5 <= x % < 10	alkenesulfonate
112-53-8	0 <= x % < 1	lauryl alcohol
112-72-1	0 <= x % < 1	tetradecanol
-	0 <= x % < 0.0015	preservative

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

In case there is a health problem or in case of doubt, inform the doctor and provide him with the information contained in this Safety data sheet.

Following inhalation:

If symptoms occur, move affected person to fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention promptly.

Following skin contact:

Wash contaminated area with soap or mild detergent. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.

Following eye contact:

Check for and remove contact lens. Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Following ingestion:

Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

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

Symptomatic treatment.

More information

The deterioration of the health status of exposure: There is no evidence that this product aggravates an existing medical condition.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Firefighting foam concentrate not flammable.
Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Aqueous solution ; does not present a specific risk in case of fire.

5.3 Advice for fire-fighters

None known for agent only. Firefighters should wear proper protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment – impervious clothes, wear gloves and goggles. Follow the instructions in Sections 7 and 8.

6.2 Environmental precautions

Absorb onto sand or other absorbent material and shovel into container for disposal.

6.3 Methods and material for containment and cleaning up

Collecting: Pump into clearly identified unbreakable containers.
Wash thoroughly with water.

6.4 Reference to other Section's

See SECTION 7 for information on safe handling.
See SECTION 8 for information on personal protection equipment.
See SECTION 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Avoid breathing vapours or mists. Keep container closed.
Wash thoroughly after handling.
No smoking, eating or drinking in areas where the mixture is used

7.2 Conditions for safe storage, including any incompatibilities

Keep container in cool well-ventilated area. Keep container tightly closed. Store away from incompatible materials. Keep out of the reach of children.

Recommended types of packaging: stainless steel, polyester or mild steel protected with epoxy or polyurethane coating. Tanks in PE, PP

Unsuitable packaging materials: mild steel

7.3 Specific end use(s)

See Section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:

- European Union (2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m ³ :	VME-ppm:	VLE-mg/m ³ :	VLE-ppm:	Notes:
111-76-2	98	20	246	50	Peau

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
111-76-2	20 ppm	A3; BEI			

- Germany - AGW (BAuA - TRGS 900, 08/08/2019) :

CAS	VME:	VME:	Excess	Notes
111-76-2	10 ppm 49 mg/m ³	2(l)		
112-53-8	20 ppm 155 mg/m ³	1(l)		
112-72-1	20 ppm 178 mg/m ³	1(l)		

- France (INRS - ED984 / 2019-1487):

CAS	VME-ppm:	VME-mg/m ³ :	VLE-ppm:	VLE-mg/m ³ :	Notes:	TMP No:
111-76-2	10	49	50	246	*	84

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
111-76-2	25 ppm 123 mg/m ³	50 ppm 246 mg/m ³	Sk. BMGV		

8.2 Exposure controls

Appropriate engineering controls:

No special ventilation requirements. General room ventilation is adequate.

Personal protective equipment:

Eye and face protection: Avoid contact with eyes. Wear chemical type goggles with face shield.

Skin protection: For prolonged or repeated handling wear impervious chemical resistant gloves PVC (polyvinyl chloride) gloves recommended.

Respiratory protection: Avoid breathing vapours, spray or mists. If necessary, use proper respiratory protection.

Environmental exposure controls:

Observe the usual precautions to protect the environment, see section 6.2.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	fluid liquid
Odour:	characteristic
pH:	7 +/- 1



Freezing point:	-15 °C
Boiling point:	Not relevant
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	Not available.
Vapor pressure:	Not available.
Relative density:	1.07 +/- 0.02 kg/dm ³
Solubility water:	soluble
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	No explosive properties.
Oxidizing properties:	Not available.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

not available

10.2 Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3 Possibility of hazardous reactions

None expected in standard use.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

not available

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of

erythema and eschar or oedema following exposure up to four hours.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

11.1.1. Substances

Skin corrosion/skin irritation :

ALKENESULFONATE

Corrosivity : No observed effect.

11.1.2. Mixture

No toxicological data available for the mixture

SECTION 12: Ecological information

12.1 Toxicity

12.1.1. Substances

TETRADECANOL (CAS: 112-72-1)

Crustacean toxicity: EC50 = 3.2 mg/l

Species: Daphnia magna

Duration of exposure: 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity: ECr50 > 10 mg/l

Species: Desmodesmus subspicatus

Duration of exposure: 96 h

PRESERVATIVE

Fish toxicity: LC50 = 0.19 mg/l

Species: Oncorhynchus mykiss

Duration of exposure: 96 h

Crustacean toxicity: EC50 = 0.16 mg/l

Species: Daphnia magna

Duration of exposure: 48 h

Algae toxicity: ECr50 = 0.027 mg/l

Species: Scenedesmus capricornutum

Duration of exposure: 72 h

12.2 Persistence and degradability

12.2.1. Substances

TETRADECANOL (CAS: 112-72-1)

Biodegradability : Rapidly degradable.

LAURYL ALCOHOL (CAS: 112-53-8)

Biodegradability : Rapidly degradable.

ALKENESULFONATE

Biodegradability : Rapidly degradable.

12.2.2. Mixtures

Biodegradability :

Rapidly degradable

12.3 Bio accumulative potential

not available

12.4 Mobility in soil

not available

12.5 Results of PBT and vPvB assessment

not available

12.6 Other adverse effects

not available.

SECTION 13: Disposal considerations

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1 Waste treatment methods

Do not discharge in the environment

Small amounts of product do not interfere with water treatment facilities. If released in sewage system, it is recommended to control the flow rate in order to avoid any foaming excess. Do not pour into waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Do not discharge in the environment. Rinse with plenty of water

SECTION 14: Transport information

In accordance with ADR, RID, IMDG, IATA, AND

Exempt from transport classification and labelling

14.1 UN Number Not applicable

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

Reference in Sections 4 to 8.

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

Not applicable

SECTION 15: Regulatory information

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

Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

Container information:

No data available.

Particular provisions :

No data available.

15.2 Chemical Safety Assessment

Not available

SECTION 16: Other information

16.1 Revision Information

2022-02-09	SDSFF-2202-EN	MS	First Compiled
2022-07-07	SDSFF-2207-EN	MS	Revision
2023-10-31	SDS-FFF-2310-EN	MS	Revision
2024-03-25	SDS-FFF-2403-EN	DF	Current Version

16.2 Abbreviations and acronyms

CAS	Unique Numeric Identifier used in chemistry for chemical substances
CLP	Classification, Labelling and Packaging
CSN	Czech Technical Standard
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
Ems	Emergency plan
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous
IC50	Chemicals Concentration causing 50 % blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Transport



LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	population
MARPOL	Lethal dose of a substance in which it can be expected death of 50% of the population
MFAG	International Convention for the Prevention of Pollution From Ships
NPK	First Aid Manual
PBT	The maximum permissible concentration
PEL	Persistent ,Bio accumulative and Toxic
REACH	Permissible Exposure Limit
RID	Registration, Evaluation and Restriction of chemicals (EP and Council Regulation (EC)
SVHC	No.1907/2006)
vPvB	Regulations concerning the International carriage of Dangerous goods by rail.
WGK	Substances of very high concern. Very Persistent and very Bio accumulative Wassergefährdungsklasse (Water Hazard Class)

16.3 Key literature references and sources for data

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended, REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended,
COMMISSION REGULATION (EU) No 453/2010, COUNCIL DIRECTIVE 67/548/EEC as amended and 1999/45/EC, COMMISSION REGULATION (EU) No 286/2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

16.4 Relevant R-phrases/H-statements

In pressurized cylinders only

H280 Contains gas under pressure; may explode if heated.

16.5 Training advice

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the mixture.

16.6 Declare to reader

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage. According to REACH Article 31(5), the SDS shall be supplied in an official language of the Member State(s) where the substance or mixture is placed on the market, unless the recipient Member State(s) concerned provide otherwise. It should also be noted that this SDS is applicable to the countries with English as an official language.

----- End of the SDS -----