

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878



MSDS-007 CheckFire AFF Foam v2.0 – June 2025

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier.

Product form:	Mixture
Product name:	AFF Foam – See page 14 for applicable products.
Type of product:	Extinguishing agents.
Product group:	Fire extinguisher.

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

121 Relevant identified uses.

Main use category:	Industrial, professional, and residential.
Use of substance/ mixture:	Extinguishing agents.
Function or use category:	Fire extinguisher.

122 Uses advised against.

No additional information available.

1.3 Details of the supplier of the safety data sheet.

Supplier:	CheckFire Ltd.
Address:	Sir Alfred Owen Way Caerphilly, CF83 1NL, South Wales
Company telephone:	+44 (0) 2920 868 333 8am – 4:45pm EST Monday-Friday
Website/ Email:	www.checkfire.co.uk sales@checkfire.co.uk
Dept Responsible for information:	Compliance

1.4 Emergency telephone number:

Emergency telephone number: +44 (0) 2920 868 333 8am – 4:45pm UK
Mon- Friday

SECTION 2 : HAZARDS IDENTIFICATION:

2.1 Classification of substance or mixture Classification according to Regulation (EC) No. 1272/2008 (CLP)

Adverse physicochemical, human health and environmental effects.

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practices.

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878



MSDS-007 CheckFire AFF Foam v2.0 – June 2025

2.2 Label elements

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

EUH-statements

Hazard Pictogram, Singal words:



Pictogram Code: H280

Signal Word: Warning – Contains gas under pressure

Hazard Statements	
Physical Hazards	Warning – Contains gas under pressure
Health Hazards	Danger – Causes eye Damage Danger – Causes Skin Irritation
Environmental Hazards	Does not meet the criteria of classification as dangerous for the environment.
Combinations	None
Precautionary Statements	
General	P101 If medical advice is needed, have product container or label at hand
Prevention	P264: Wash hands thoroughly after handling P280: wear eye protection face protection.
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. P337+P313: If eyes irritation persists: Get medical advice / attention.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS:

3.1 Substances

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878



MSDS-007 CheckFire AFF Foam v2.0 – June 2025

Not applicable

3.2 Mixtures

Name	Product Identifier	%	Classification according to Regulation (EC) No 1272/2008 (CLP)
Water	CAS No. 7732-18-5 EC No. 231-791-2	62-79	-
2-(2-butoxyethoxy) Ethanol	CAS No. 112-34-5 EC No. 203-961-6	8-12	-
Proprietary Mixture of Synthetic Detergents	CAS No. N/A EC No. N/A	6-11	-
C6 Fluoroalkyl Surfactant	CAS No. N/A EC No. N/A	0.5-2	-

- 1: Fire extinguishers contain compressed air to ensure a high velocity discharge of product.
- 2: This MSDS is prepared mainly according to chemical mixture (3% filling) inside the extinguisher.
- 3: See Section 8 of MSDS for exposure limit data for these ingredients. Full text of risk phrases & H-Statements appearing in section 3: see section 16.
- 4: This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

This product does not contain substances classified as hazardous according to the European parliament and council regulation (EC) no 1272/2008 of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing directive 67/548/EEC and 1999/45/EC, amending regulation (EC) no 1907/2006 in the concentration ranges specified.

Section 16 stated the importance of H-phrases and symbols.

SECTION 4: FIRST AID MEASURES:

4.1 Description of first aid measures

First aid measures after inhalation: Remove the victim to fresh air and keep

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878

MSDS-007 CheckFire AFF Foam v2.0 – June 2025



comfortable for breathing. Consult a doctor/medical service if you feel unwell.

First aid measures after skin exposure: Wash skin with plenty of water. Consult a doctor/medical professional if irritation persists.

First aid measures after eye contact: Wash immediately with plenty of water for at least 20 minutes, opening the eyelids fully. Consult an eye specialist.

First aid measures after Ingestion: Do not induce vomiting. Seek medical advice if necessary.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

No additional information available.

5.2 Special hazards arising from the substance or mixture.

Hazardous decomposition products may include Carbon Monoxide, Carbon Dioxide, and other toxic gases.

5.3 Advice for fire fighters

Precautionary measures fire: Evacuate area.

Firefighting instructions: Exercise caution when fighting any chemical fire.

Protection during firefighting: Do not attempt to act without suitable protective equipment. Self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

General measures: Do not handle until all safety precautions have been read and understood.

6.1.1 For non-emergency personnel

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878



MSDS-007 CheckFire AFF Foam v2.0 – June 2025

Protective equipment:

Wear appropriate personal protective equipment.

Emergency Procedures:

Ventilate spillage area.

6.1.2 For emergency responders

Protective equipment:

Do not attempt to act without suitable protective equipment. Provide adequate ventilation. Avoid contact with eyes. For further information refer to section 8. "Exposure controls/ personal protection".

6.2 Environmental precautions

Avoid release to the environment. In the event of a serious pollution event notify the appropriate administrative authority. Collect all waste in suitable and labelled containers and dispose of it according to local legislation.

6.3 Methods and materials for containment and cleaning up.

Method for cleaning up:

Take up liquid into absorbent material. This material and its container must be disposed of in a safe way as per local legislation.

Other information:

Dispose of materials or solids residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:

Ensure good ventilation of the workstation.
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.

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878

MSDS-007 CheckFire AFF Foam v2.0 – June 2025



Recommended storage conditions -15°C to 50°C.

Heat and ignition sources:

Avoid high 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 regulations. Keep only in original container.

Specific end uses (s):

No additional information available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

EH40/2005 workplace exposure limits, fourth edition, published 2020, ISBN 978 0 7176 6733 8.

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2 Recommended monitoring procedures

No additional information available

8.1.3 Air contaminants formed.

No additional information available

8.1.4 DNEL and PNEC

No additional information available

8.1.5 Control banding

No additional information available

8.2 Exposure Controls

Mandatory general regulations on occupational health. Do not allow to exceed the normative concentrations of hazardous constituents in the workplace.

8.2.1 Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation at the workstation.

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878

MSDS-007 CheckFire AFF Foam v2.0 – June 2025



8.2.2 Personal protective equipment

Personal protective equipment: Gloves. Protective clothing. Protective goggles.

Personal protective equipment symbol(s).



8.2.2.1 Eye and face protection

Eye protection:

Chemical goggles or safety glasses.

Physical state			
Type	Field of application	Characteristics	Standard
Safety goggles, safety glasses		With side shields	EN 166

8.2.2.2 Skin protection

Skin and body protection:

Wear suitable protective clothing.

Hand protection:

Protective gloves.

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves					EN ISO 374

Other skin protection:

Materials for protective clothing:

Wear personal protective equipment. Chemical resistant safety shoes. Keep suitable Chemically resistant clothing readily available for emergency use.

8.2.2.3 Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.2.4 Thermal hazards

No additional information available

8.2.3 Environmental exposure controls

Environmental Exposure Controls:

Avoid release to environment.

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878

MSDS-007 CheckFire AFF Foam v2.0 – June 2025



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties – extinguishing agent

Physical state	Liquid
Colour	Light Yellow
Odour	Mild pleasant.
Odour threshold	Not available
Melting point	Not applicable
Freezing point	-8°C
Boiling Point	Not applicable
Flammability	Not applicable
Explosive limits	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Flash Point	>93°C
Autoignition temperature	Not applicable
Decomposition temperature	Not applicable
pH	8
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable
Solubility	100% water soluble
Partition coefficient n-octane/water (log Kow)	Not applicable
Vapour pressure	Not applicable
Density	1.04 (Water = 1.0)
Relative vapour density at 20°C	Not applicable
Particle characteristics	Not applicable

9.2 Other information

9.2.1 Information with regard to physical hazard classes:

No additional information available

9.2.2 Other safety characteristics

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878



MSDS-007 CheckFire AFF Foam v2.0 – June 2025

The product is stable in normal conditions.

10.2 Chemical stability

The product is stable in normal conditions.

10.3 Possibility of hazardous reactions

Not applicable

10.4 Conditions to avoid

Not applicable

10.5 Incompatible materials

Strong oxidizing agents and water reactive substances.

10.6 Hazardous decomposition products

Not applicable

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in regulation (EC) No. 1272/2008

Acute toxicity (oral)	LD50> 2000mg/kg (Rat) (OCED 420; EU-Method B1)
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion / irritation	No irritating effect (Rabbit OECD Test 404)
Serious eye damage / irritation	No irritating effect (Rabbit OECD Test 405)
Respiratory or skin sensitisation	No irritating effect
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

11.2 Information on other hazards

No additional Information available

SECTION 12: ECOLOGICAL INFORMATION

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878



MSDS-007 CheckFire AFF Foam v2.0 – June 2025

12.1 Toxicity

Ecology – general:

EC50 3.5 mg/l (algae) (OECD 201)

EC50/48h 876 mg/l (Daphnia sp.)
(OECD 202)

LC50/96h 25.0 mg/l (fish) (OECD 203)

12.2 Persistence and degradability

Readily biodegradable Other information: Biological degradation: 91% after 28 days (DIN 38412 - L 3)

12.3 Bio-accumulative potential

No further relevant information is available.

12.4 Mobility in soil

No further relevant information is available.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Endocrine disrupting properties

Not specified

12.7 Other adverse effects

Not specified

SECTION 13: DISPOSABLE INFORMATION

13.1 Water 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 /

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878



MSDS-007 CheckFire AFF Foam v2.0 – June 2025

14.1 UN number or ID number

UN-No. (ADR):	Not applicable
UN-No. (IMDG):	UN 1044
UN-No. (IATA):	Not applicable
UN-No. (ADN):	Not applicable
UN-No. (RID):	Not applicable

14.2 UN proper shipping names

Proper shipping names. (ADR):	Not applicable
Proper shipping names. (IMDG):	Fire extinguishers with compressed or liquefied gas.
Proper shipping names. (IATA):	Not applicable
Proper shipping names. (ADN):	Not applicable
Proper shipping names. (RID):	Not applicable

14.3 Transport hazard class(es)

ADR –Transport hazard class(es):	Not applicable
IMDG –Transport hazard class(es):	Not applicable
IATA–Transport hazard class(es):	Not applicable
ADN –Transport hazard class(es):	Not applicable
RID– Transport hazard class(es):	Not applicable

14.4 Packing group

Packing group ADR:	Not applicable
Packing group IMDG:	Not applicable
Packing group IATA:	Not applicable
Packing group ADN:	Not applicable
Packing group RID:	Not applicable

14.5 Environmental hazards

Dangerous for the environment:	No
Marine pollutant:	No
Other information:	No supplementary information available

14.6 Special precautions for user

Overland transport:	Not applicable
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14.7 Maritime transport in bulk container to IMO instruments

Not applicable

SECTION 15: REGULATORY INFORMATION

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878

MSDS-007 CheckFire AFF Foam v2.0 – June 2025



15.1 Safety, Health, and Environmental Regulations / Legislation Specific for the Substance or Mixture

15.1.1 EU Regulations

REACH Annex XVII (Restrictions List) : Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions) **REACH Annex XIV (Authorisations List)**: Contains no substance(s) listed on REACH Annex XIV (Authorisations List)

REACH Candidate List (SVHC): Contains no substance(s) listed on REACH Candidate List.

PIC Regulation List (Prior Informed Consent): Contains no substance(s) listed on PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).

POC Regulation List (Persistent Organic Pollutants): Contains no substance(s) listed on POPlist (Regulation EU 2019/1021 concerning persistent organic pollutants).

Ozone Regulation (1005/2009): Contains no substance(s) listed on Ozone Depletion list (Regulation EU 1005/2009 concerning substances that deplete the ozone layer).

Explosives Precursors Regulation (2019/1148): Contains no substance(s) listed on Explosives Precursors list (EU Regulation 2019/1148 concerning marketing and use of explosive precursors).

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16 : OTHER INFORMATION

Full text of H- and EUH-statements	
H302	Harmful if swallowed
H319	Causes serious eye irritation.

LEGEND / 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.		
BLV	Biological limit value.		
CASNo.	Chemical Abstract Service Number.		
CLP	Classification Labelling Packaging Regulation : Regulation (EC) No.		

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878



MSDS-007 CheckFire AFF Foam v2.0 – June 2025

1272/2008.

CE50	Effective Concentration (required to induce a 50% effect).
CE No	Identifier in ESIS (European Archive of Existing Substances).
DMEL	Derived-Minimal Effect Level.
DNEL	Derived No Effect Level.
EC50	Median effective concentration.
EC-No.	European Community number.
EN	European standard.
EmS	Emergency Schedule.
GHS	Globally Harmonised System of Classification and Labelling of Chemicals.
IATA	International Air Transport Association Dangerous Goods Regulations.
IMDG	International Maritime Code for Dangerous Goods.
IMO	International Maritime Organization.
LC50	Median Lethal Concentration.
LD50	Median Lethal Dose.
LOAEL	Lowest Observed Adverse Effect Level.
NOAEC	No Observed Adverse Effect Concentration.
OEL	Occupational Exposure Limit.
NOAEL	No Observed Adverse Effect Level.
NOEC	No Observed Effect Concentration.
PBT	Persistent Bio Accumulative Toxic.
PNEC	Predicted No Effect Concentration.
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulations (EC Regulation 1907/2006)
RID	Regulation Concerning the International Transport of Dangerous Goods by Rail.
SDS	Safety Data Sheet.
TLV	Threshold Limit Value
TLV Ceiling	Concentration that should not be exceeded during any time of occupational exposure.
TWASTEL	Short term exposure limit.
TWA	Time weighted average exposure limit.
VOC	Volatile organic compounds.
vPvB	Very Persistent and Very Bio Accumulative.
WGK	Water Hazard Class.
STOT	Specific Target Organ Toxicity.

Other Information

The information contained in the present sheet is based on our own knowledge and believed accurate and reliable. This information is based on 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. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This MSDS is applicable for the following products:

SAFETY DATA SHEET

According to the REACH Regulations (EC) 1907/2006 amended by Regulation (EU) 2020/878

MSDS-007 CheckFire AFF Foam v2.0 – June 2025



Product Code
FSEX1
FSWX2
FSWX6
FSWX6
FSEX6
FSEX9
WFF50
WFF100
FSEX6SS
FSEX9SS

END OF MSDS