MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Product Name : P50 ECO Foam (1.5% FFX Compact + 25% FFX Booster A)
Use : Fire Extinguishing Foam for fire classes A, B & F Class

Supplier : Britannia Fire Limited

Ashwellthorpe Industrial Estate

Ashwellthorpe NR16 1ER

United Kingdom

Telephone : +44 (0) 1508 488416

E mail : sales@britannia-fire.co.uk

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Not classified

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 practice.

2.2 Label elements

Labelling Regulation EC 1272/2008 (CLP)

EUH-statements : EUH208 - Contains 1,2-Benzisothiazol-3(2H)-one(2634-

33-5). May produce an allergic reaction. EUH210 - Safety

data sheet available on request.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances : Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-Benzisothiazol-	CAS-No.: 2634-33-5	0.005160761	Acute Tox. 4 (Oral), H302
3(2H)-one	EC-No.: 220-120-9	_	Skin Irrit. 2, H315
	EC Index-No.: 613-088-00-6	0.006790475	Eye Dam. 1, H318
			Skin Sens. 1, H317
			Aquatic Acute 1, H400

Substance name	Product identifier	Specific concentration limits
1,2-Benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5	(0.05 ≤C < 100) Skin Sens. 1, H317
	EC-No.: 220-120-9	
	FC Index-No.: 613-088-00-6	

4. FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Consult a doctor/medical service if you feel unwell.
First-aid measures after skin contact First-aid measures after eye contact	: Wash skin with plenty of water.: Wash immediately with plenty water (during 20 minutes), also under eyelids. Consult an eye specialist.Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Remove contaminated clothes.

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

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area.

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not attempt to take action without suitable

protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

6. ACCIDENTIAL 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

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable

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

6.2. Environmental precautions

Avoid release to the environment. Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. This

material and its container must be disposed of in a

safe way, and as per local legislation.

Other information : Dispose of materials or solid residues at an

authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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.

Storage temperature : 5 – 50 °C

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.

7.3. Specific end use(s)

No additional information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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

8.2.1. Appropriate engineering controls

Appropriate engineering controls :Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

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

8.2.2.1. Eye and face protection

Eye protection :Chemical goggles or safety glasses. Safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard

Safety goggles, Safety	With side shields	EN 166
glasses		

8.2.2.2. Skin protection

Skin and body protection : Wear suitable protective clothing

Hand protection : Protective gloves

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

Other skin protection

Materials for protective clothing:

Wear personal protective equipment. Chemical resistant safety shoes. Keep suitable chemically resistant protective 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 the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : colourless to slightly yellow.

Odour : characteristic.
Odour threshold : No data available

pH : 6 – 9

Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable

Freezing point : 0 °C

: No data available **Boiling point** Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available Relative vapour density at 20°C : No data available Relative density : No data available

Density : 1 - 1.04

Solubility : Water solubility.
Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, kinematic : No data available

Viscosity, dynamic : 1-6

Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

Refractive index : 1.33 - 1.38

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

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

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.

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

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)

Hazardous to the aquatic environment,

long-term (chronic)

: Not classified

: Not classified

12.2. Persistence and degradability

1.5% FFX Compact + 25% FFX Booster A	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative 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

No additional information available.

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.

14. TRANSPORT INFORMATION

General information : Not classified as dangerous in the meaning of transport regulations.

Not regulated.

When transported in a stored pressure or cartridge type fire extinguisher, the fire extinguisher is considered a class 2.2 hazard.

The proper shipping name shall be FIRE EXTINGUISHER, and the number is UN 1044.

UN Number

UN 1044

UN proper shipping name

Fire extinguisher

Transport hazard class(es)

2.2

15. REGULATORY INFORMATION

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

15.1.1. EU-Regulations

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 (1005/2009)

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

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)

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. BlmSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen –

Borstvoeding

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

SZW-lijst van reprotoxische 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.

16. OTHER INFORMATION

Abbreviat	ions 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
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration

EN	European Standard
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
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Other information

: Such information is actually to be best of our knowledge and believes accurate as reliable. 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.

Full text of H- and	d EUH-statements:
Acute Tox. 4	Acute toxicity (oral), Category 4
(Oral)	
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

Safety Data Sheet (SDS), EU

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