

**FSS100**

**SAFERIGHT**

**AUTHORISED DISTRIBUTOR OF**

## FIRE SUPPRESSION SYSTEM

## FSS100

The FSS100 is the latest innovation in the fire protection industry and is significantly lighter than conventional fire protection equipment such as fire extinguishers. It is cost efficient for small to large businesses, households, offices as well as all types of vehicles, and can be safely stored easily for easy access in an emergency.

The FSS100 is designed to be very lightweight at only 365g which makes it a suitable alternative to fire extinguishers. It is not pressurised which means it does not require any form of servicing, maintenance or refills compared to other conventional fire protection equipment such as fire extinguishers. This eliminates the danger of pressurised containers from exploding or malfunctioning.

With the FSS100, there is no residue left behind after use which reduces the cost of 'salvage and recovery' once the fire has been put out.

# LIGHTEST & MOST ADVANCED FIRE SUPPRESSION SYSTEM • LIGHTWEIGHT • PORTABLE • EASY TO USE •

**100 SECONDS OF FIRE SUPPRESSION  
PUTS OUT FIRE CLASS A,B,C,E,F  
LIGHT, COMPACT, PORTABLE, EFFICIENT, SAFE, ECONOMICAL.  
NON-PRESSURISED - NO SERVICING/MAINTENANCE/REFILL NEEDED  
NON-CORROSIVE, NON-TOXIC, ENVIRONMENTALLY FRIENDLY  
NO RESIDUE LEFT AFTER USE  
8-YEAR SHELF LIFE**

- Tested in accordance with AS/NZS 1850:2009 for Class 2B-1C-1F Fires •
- Complies with relevant Clauses EN3-7 for Class: A & E Fires •
- Verified by BSI with BSI Verification Certificate No.: VC727986 •

FSS100 Rev 1 16.09.2021

**For product customisation or more information,**  
Email: [saleswa@saferight.com.au](mailto:saleswa@saferight.com.au) | Contact No. 1800-352-335  
42 Belmont Avenue, Belmont, WA 6104, Australia

**WWW.SAFERIGHT.COM.AU**



Quality  
ISO 9001  
Licence: QEC20205  
SAI GLOBAL



## FIRE SUPPRESSION SYSTEM

## FSS100

### PUTS OUT CLASS FIRE: A,B,C,E,F.



• Class A Fires: Solid combustible materials



• Class B Fires: Liquid combustible materials



• Class C Fires: Gaseous combustible materials



• Class F Fires: Cooking & oil fats



• Electrical Equipment Fires: Up to 100V

### MATERIALS & COMPONENTS

- Weight: 365g
- Length: 32.8cm
- Diameter: 3.3cm
- Inner Component: Metal Tube
- Outer Component: Plastic Cover

### TESTING & QUALITY CONTROL

- Tested in accordance with AS/NZS 1850:2009 for Class 2B-1C-1F Fires
- Complies with relevant Clauses EN3-7 for Class: A & E Fires
- Verified by BSI with BSI Verification Certificate No: VC727986
- 100% visual inspection
- Saferight is an ISO 9001 Certified Quality Assurance System

# AUTHORISED DISTIRUBTOR FOR **FIRE STRYKER**

#### Importer's Information:

Firestryker Australasia Pty Ltd  
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[info@firestryker.com.au](mailto:info@firestryker.com.au)



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## FSS100



### Sturdy Handle

Each FSS100 weighs only 365g and is 32.8cm long. It has a firm handle at the bottom which improves mobility to point the other end at the base of flames.

### UV/Heat Protection Cover

Light protection cover which is easily removable with a slight twist

### Igniter Cap

Easy to ignite to activate the FSS100

### SIMPLE STEPS TO USE:



Remove the cover



Take out the striker cap at the bottom



Strike the igniter



Point at base of flames

WATCH THE  
FIRESTRYKER  
FSS100 IN ACTION



**FIRE SUPPRESSION SYSTEM****FSS100**

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**FIRE SUPPRESSION SYSTEM****FSS100**

**LATEST TECHNOLOGY IN  
FIRE SUPPRESSION SYSTEMS.  
PUTS OUT FIRE CLASS A,B,C,E & F.**

**LIGHTWEIGHT, SAFE &  
SIMPLE TO USE.  
100 SECONDS OF  
FIRE SUPPRESSION  
& LEAVES NO MESS.**

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# FIRE SUPPRESSION SYSTEM

## FSS100

### MATERIAL SAFETY DATA SHEET

Conform to Regulation (EC) No. 1272/2008 (CLP)

amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

#### SECTION 1: Identification of the substance/mixture and of the Company /Undertaking

1.1. Product name/Trade name	FSS - FIRE SUPPRESSION SYSTEMS
1.2. Material uses	Fire suppressants
1.3. Details of the supplier of the safety data sheet	ESP International Srl Via IV Novembre 132 - 29122 Piacenza (PC) – Italy <u>Manufacturing Plant:</u> Strada per Chieri, no. 109 - 14019 Villanova d'Asti, AT – Italy Phone +39/0141- 945628 Fax +39/0141- 946671 Email: <a href="mailto:info@fss-esp.com">info@fss-esp.com</a> Website: <a href="http://www.fss-esp.com">www.fss-esp.com</a> POC: Mr. Enzo Perna Email <a href="mailto:e.perna@fss-esp.com">e.perna@fss-esp.com</a>
1.4. Emergency telephone number	telephone +39 0141 – 945628

#### SECTION 2: Hazard Identification

##### 2.1. Classification of the substances or mixture

Index #	Component	CAS NUMBER	EC NUMBER	CLP Classification Regulation EEC no. 1272/2008	DSD Classification 67/548/EEC
//	Potassium Nitrate	7757-79-1	231-818-8	2.14/3 Ox. Sol.3 H272	O; Oxidizer
//	DCDA	461-58-5	207-312-8	//	//
//	Organic resin	9003-35-4	500-005-2	//	//

Adverse physicochemical, human health and environmental effects: No other hazards

##### 2.2. Label elements



Hazard Class and Category: Oxidizing solid, hazard category 3

Signal Word: Warning

Hazard Statement: H272: may intensify fire; oxidizer

##### General Statements:

P102 Keep out of the reach of children

P103 Read label instructions before use

##### Precautionary Statement Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. — Do not smoke.

P221 Take any precaution and keep away from combustible material

P243 Avoid electrostatic loads

P250 Avoid crash and strike

P273 Do not waste the product and/or the casing

##### Precautionary Statement Response: Fluid Aerosol

P302+P350+P313 In case of skin contact: may cause redness or irritation. Rinse cautiously with running water.

If skin irritation occurs get medical advice/attention.

P304+P340+P313 In case of inhalation: remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention for any breathing difficulty.

P305+P351+P313 In case of eye contact: may cause redness or irritation. Rinse cautiously with running water for



# FIRE SUPPRESSION SYSTEM

## FSS100

several minutes. If eye irritation persists get medical advice/attention.

P314 Seek medical attention for further treatment, observation, and support if necessary.

P370+P380 In the event of a fire, evacuate the area and inform emergency services.

Ignition of FSS Fire Suppression Systems produces a fire suppression aerosol.

P370+P378 Water may be used as an additional suppression agent, as well as powder extinguisher and/or CO2 extinguisher.

Precautionary Statement Disposal:

P501 Disposal should be in accordance with applicable national, state and local environmental control regulations.

2.3. Other Hazards No other hazards

### SECTION 3: Composition, Information on Ingredients

3.1. Identification	CAS #	EC #	CLP Classification Regulation EEC no. 1272/2008	DSD Classification 67/548/EEC	%	Comments
Potassium Nitrate	7757-79-1	231-818-8	GHS03 Wng 2.14/3 Ox. Sol.3 H272 EUH 210	O; Oxidizer	≥43	Components are blended and pressed into a highly stable, molded form. Molded composition is contained within a stainless steel housing.
DCDA	461-58-5	207-312-8	//	//	≥32	No environmental exposure
Organic resin	9003-35-4	500-005-2	//	//	≥25	

Extinguishing Charge:

Discharge time:

Fluid Aerosol:

PBT

vPvB

3.2. Other denomination:

Composition of the extinguishing charge is contained within a sealed aluminum casing. Polymerized mixture of Organic and Inorganic Salts  
From 50sec to 100sec ( ± 10% tolerance )  
Particulates of Potassium Salts, Nitrogen and Water Vapor  
N/A  
N/A  
Portable Condensed extinguishing device

### SECTION 4: First Aid Measures

4.1. Description of first aid measures Body	Extinguishing charge: None. Contact is impossible when the flame inhibitor is assembled. Do not touch the tube of the dispenser during/after use. Medical attention is unnecessary.
Skin Contact / Eye Contact	Fluid Aerosol: after contact, wash/flush immediately with running water. Medical attention is necessary in case of direct contact burns
4.2. Most important symptoms and effects, both acute and delayed	No information available.
4.3. Indication of any immediate medical attention and special treatment needed	Seek medical attention for further treatment, observation and support, if necessary.

### SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Water.



# FIRE SUPPRESSION SYSTEM

## FSS100

Carbon dioxide (CO <sub>2</sub> ) CO <sub>2</sub> or Dry chemical fire extinguishers.	
5.2. Special hazards arising from the substance or mixture Flammability of the product	Do not inhale combustion gases.  Beginning of self-ignition phenomena over 300°C (over 572°F). Medical attention is unnecessary. In the event of a fire, evacuate the area and inform emergency services. Ignition of FSS - Fire Suppression Systems produces a fire suppression aerosol.
5.3 Advice for fire-fighters	No specific measures are required as the product itself is a fire fighting agent. Use breathing apparatus if required

### SECTION 6: Accidental Release Measures

- 6.1. Personal precautions, protective equipment and emergency procedures
- 6.2. Environmental precautions. No particular action: the emission of the extinguishing charge when the fire suppressant is assembled is impossible, as it is inert material. See protective measures under point 7 and 8.
- 6.3. Methods and material for containment and cleaning up  
If the devices come out from packaging they can be safely recovered by hand and should be inspected for damage prior to repacking. Suspect or damaged articles should be labelled and consigned for correct disposal.
- 6.4. Reference to other sections. See also section 8 and 13

### SECTION 7: Handling and Storage

- 7.1. Precautions for safe handling  
Normal attention in handling.  
In case of unintentional activation of the fire suppressant, wait for the complete aerosol discharge and ventilate the area. Avoid the direct contact of the product with open flames.
- 7.2. Conditions for safe storage, including any incompatibilities  
Store in an environment between -10°C and +50°C, not exposed to sunlight.  
Avoid: shock, electric currents, static discharge, excessive heat and extended periods of storage at temperature greater than 50°C exposure to sunlight.  
Packaging in cardboard boxes; do not pile the boxes higher than 2 mt  
Medical attention is unnecessary.
- 7.3 Specific end use(s). None in particular

### SECTION 8: Exposure Controls, Personal Protection

8.1 Control parameters	Potassium nitrate - Index: N/A, CAS: 7757-79-1, EC No: 231-818-8 DCDA - Index: N/A, CAS: 461-58-5, EC No: 207-312-8 Organic Resin - Index: N/A, CAS: 9003-35-4, EC No: 500-005-2 TLV TWA: N.A.
8.2 Exposure controls Respiratory protection	Ventilate area completely after discharge. Do not enter the area prior to complete venting of enclosures. Use filter mask as necessary during clean-up
Hand protection	Wear gloves if necessary
Eye protection	Safety glasses are advisable if necessary
Skin protection	N/A
Personal protection:	No individual protection.
Occupational exposure limits:	Stick to the instructions legible on the product and inside each packaging box.
Environmental exposure controls:	No specific occupational exposure limit. No information available.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Appearance and odor of aerosol:	Beige to white in color. Odorless.
Auto-ignition temperature:	about 350°C (about 662°F)
Solubility in water:	Slightly soluble
Appearance of device:	steel cylinder High up to 330 mm in length and of mm 33 diameter
Extinguishing charge physical state:	from 20°C solid to 0°C solid (from 62°F solid to 32°F)
Usability Temperature:	-140°F to +320°F
Granulometry:	From 2 to 4 microns
Steam:	None
Conductivity:	Non conductor
Fluid Aerosol physical state:	Gaseous
Exit temperature:	high, safety distance from supply source 1mt
9.2. Other information	
Conductivity	Nonconductor up to 100.000 Volt
Electrostatic Discharge	None
Usability Humidity	up to 98 % U.R
Corrosiveness	None
Thermal Shock	None
Residue after use	Negligible

## SECTION 10: Stability and Reactivity

10.1 Reactivity. No specific test data related to reactivity available for this product or its ingredients.  
 10.2 Chemical stability. The product is stable under normal storage and temperature conditions.  
 10.3 Possibility of hazardous reactions. None identified. During use no dangerous decomposition products are produced.  
 10.4 Conditions to avoid. No specific data  
 10.5 Incompatible materials  
 10.6 Hazardous decomposition products: None  
 Note: These devices are extremely stable below 125°C. They should be protected from fire, sources of electrical power, shock and high temperatures.

## SECTION 11: Toxicological Information

11.1. Information on toxicological effects  
 Toxic by-products of combustion are extremely low.  
 Main by-products are listed below with 15 minute TWA values for a concentration of 50gr/m3:  
 Gas 15 minute Time Weighted Average in parts per million  
 CO (carbon monoxide) 57 ppm  
 NOx (nitrogen dioxide) <5 ppm  
 Aerosol (particulates) 8,5 mg/m3  
 General : No known significant effects or critical hazards.  
 Carcinogenicity : No known significant effects or critical hazards.  
 Mutagenicity : No known significant effects or critical hazards.  
 Teratogenicity : No known significant effects or critical hazards.  
 Carcinogenicity : No known significant effects or critical hazards.  
 Reproductive toxicity : No known significant effects or critical hazards.  
 Developmental effects : No known significant effects or critical hazards.  
 Fertility effects : No known significant effects or critical hazards.  
 Symptoms related to the physical, chemical and toxicological characteristics  
 Eye contact No specific data



# FIRE SUPPRESSION SYSTEM

## FSS100

Skin contact No specific data.  
 Ingestion No specific data  
 Inhalation No specific data.  
 Delayed and immediate effects and also chronic effects from short and long term exposure: N/A

### SECTION 12: Ecological Information

#### 12.1 Toxicity

These devices present no ecological hazards.

12.1.1. The aerosol produced after ignition has the following characteristics:

ODP Ozone Depletion Potential = 0

GWP Global Warming Potential = 0

ATL Atmospheric Life Time = negligible

12.2. Persistence and degradability No information available.

12.3. Bio accumulative potential No information available

12.4. Mobility in soil No information available

12.5. Results of PBT and vPvB assessment No PBT information available. No vPvB information available

12.6. Other adverse effects No information available.

### SECTION 13: Disposal Considerations

#### 13.1. Waste treatment methods

Disposal should be in accordance with applicable national, state and local environmental control regulations.

### SECTION 14: Transport Information

14.1. UN Code Number ADR-RID-AND-IMDG-IATA

14.2. Name of UN ADR-RID-AND-IMDG-IATA

14.3. Hazard Class ADR-RID-AND-IMDG-IATA

14.4 Packing Group ADR-RID-AND-IMDG- IATA

UN 3178

Flammable solid, inorganic, n.o.s.

Classification 4.1

III

Passenger aircraft rail: 25kg

Cargo aircraft: 100kg

NONE

NO

14.5. Environmental hazards

Environment

Marine pollutant

14.6. Special precautions for user

The goods should be transported in the original packaging and in any case in packaging made of material resistant to their content and not likely to generate reactions.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Other Regulatory Information

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances).

Dir. 99/45/EEC, (Classification, packaging and labelling of dangerous preparations).

Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values);

Dir. 2006/8/CE.

Regulation (CE) n. 1272/2008 (CLP)

15.2. Chemical Safety Assessment

Information N/A.

### SECTION 16: Other Information

# FIRE SUPPRESSION SYSTEM

## FSS100

- Customs Tariff Number 84241000
- HS CODE # 292990

### Main bibliographic sources:

- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- Analysis and test report by the Polytechnic of Turin, Science of Material & Chemical Engineering Department

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATL: Atmospheric Life Time

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging. Regulation No. 1272/2008.

DCDA: Dicyandiamide

DSD: Directive 67/548/EEC.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

GWP: Global Warming Potential

HS Code: Harmonized System Code

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

N/A.: Not available

ODP: Ozone Depletion Potential

PBT: Persistent bio accumulative and Toxic

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent and very bio accumulative

Comply with Manufacturer's installation and maintenance procedures

EUH210: Safety data sheet available on request.

Validated and verified by	Mr. Enzo Perna, Quality Mgr.
Revision #7	April 1, 2019

### WARRANTY

All fire suppressant products carry a 3 year warranty after date of shipment against defects in materials and workmanship under conditions of normal use. Any product found defective within this period shall be replaced or repaired at ESP INTERNATIONAL SRL discretion.

Manufacturer's warranty, terms and conditions apply in all cases. No other warranty express or implied is valid.

Manufacturer shall not be liable or responsible, however, for any defects attributed to normal wear and tear, erosion or corrosion or improper storage, use or maintenance, negligence. In addition, Manufacturer shall not be liable for any defects arising from alteration or modification, nor from consequential incidental damages. Buyer shall give Manufacturer an opportunity to investigate. Transportation charges for the return of fire suppressants to Manufacturer shall be prepaid by Buyer.

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