

PainsWessex

SURVIVAL SOLUTIONS

www.painswessex.com



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PainsWessex

Emergency Marine Safety Equipment

When you specify lifesaving equipment for your vessel, you need to know beyond any doubt that it is the most reliable and highest quality available. With Pains Wessex advanced pyrotechnic marine distress signals, you can be sure that you have made the right choice.



Brand Heritage



Global Distribution



Quality & Safety

Pains Wessex is known to be the oldest marine distress signal brand with origins back as far as 1620 – in 1873, the company applied for the first patent of a marine distress flare.

Today, the quality, technological superiority and innovative design of the Pains Wessex range, combined with worldwide approvals and manufacturing to ISO 9001 standard, ensure that the company's products are still market-leaders.

Product Accreditations



EU Marine Equipment
Directive (MED)



US Coast Guard Approval



International Maritime Organisation
SOLAS Approved



Red Ensign (UK, MCA & MER)



European Conformity

Pyrotechnics In The Marine Industry

Pyrotechnics unique capabilities still play a significant role in search and rescue (SAR) operations, offering a range of benefits that enhance visibility, communication, and overall effectiveness in marine emergencies.

Life Saving Capabilities



Designed for a marine environment
Waterproof, reliable and self-powered, ready to deploy in critical situations.



Effective signalling Pyrotechnics offer a clear, universally recognised, unmistakable signal or orange smoke.



Supports multiple responses, offering initial distress, rendezvous, area illumination or helicopter wind direction and strength indicators.



Enhanced visibility over long distances and offering unique day & night detection with intense high candela brightness and orange distress smoke.



Complements Electronic Distress, by pinpointing precise physical locations to support digital data.



Stringent quality controls SOLAS approved pyrotechnics annually tested for water resistance, duration, brightness, delay, height and colour.

Search and rescue distress signals are designed to work in conjunction with multiple rescue technologies, each with their own capabilities and place in the rescue cycle (see diagram below). Pyrotechnics have a key part to play in an integrated survival plan through their life saving features of universal recognition, day or night detection, ease of activation and powerful rapid illumination. All of which assist the identification of a physical location – supporting the multiple electronic and radio frequency messages that confirm distress situation and digital coordinates from EPIRBs, PLBs, Radios and AIS MOBs.

Timeline of Distress Signalling Deployment



VESSEL IN DISTRESS



CREW MOVE TO RAFT



SAR IN AREA



RESCUE

- Radio Mayday - Ch 16
- Activate EPIRB - Global Alert
- Activate Parachute Rocket, Localised Distress alerting vessels within 25 miles range.
- Activate PLB - Global alert of location.
- Activate Parachute Rocket
- Activate EVDS - Long term visual night marker
- Activate Parachute Rocket
- Activate Hand Flares - high impact illumination
- Activate Orange Smoke - Daylight location & wind direction marker
- Activate Illumination flare - powerful area illumination.

Leading Capabilities & Manufacturing Excellence

Wescom Group manufacturing distinction comes from our unique German production facility, that utilises state of the art equipment, designed and manufactured onsite by our engineering team, to create the world's first automated pyrotechnics assembly line.

1

Designed For Safety

Wescom's decades of experience have helped create a sophisticated range, with features that support distribution, while maximising user safety and product performance.



2

Trusted By Professionals

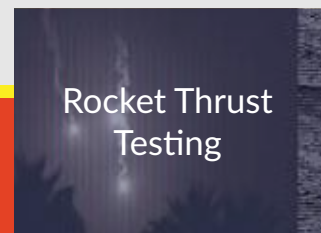
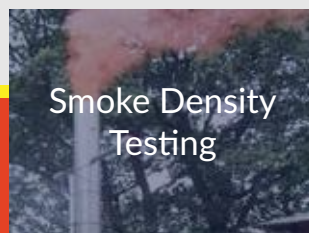
As an active member of professional standards organisations, such as ILAMA and the FSR (German association of Sea Rescue Equipment), Wescom Group helps to maintain and drive future standards in safety.

3

Tried & Tested Performance

Multi-stage in-house controls include quality testing of compositions and semi-completed components before they enter final production, as well as batch testing of all lots before distribution. This helps ensure our market-leading, consistent performance, which is at the heart of our pyrotechnic manufacturing.

Wescom Quality Controls Include



Linethrower 250

Art Nos. Complete unit 9502000 · Body and line 9500700 · Rocket 9500800

A self-contained line-throwing appliance consisting of a weatherproof plastic casing with end cap, twist-grip trigger assembly, rocket and line.

To comply with SOLAS requirements, four complete rocket and line assemblies (Art. No. 9502000) should be carried on board. The device has a throwing range of between 230m and 250m. A solid propellant is used which guarantees a highly accurate flight path even in strong sidewinds.

APPLICATION

The Pains Wessex Linethrower 250 is designed for ease of operation in the most extreme weather conditions. It can be used in all situations where a line is required to be passed accurately and quickly.

FEATURES

- All line-throwing operations at sea between vessels, ship-to-shore, shore-to-ship and shore-based rescue services.
- Line carrying across obstacles and rough terrain.



APPROVALS

Conforms to: SOLAS 74 as amended, IMO resolutions MSC 81(70) Part 1. (MED) 96/98/ EC, USCG/UK MER and other major maritime authorities worldwide. BAM 0589-P2-0016 (Complete Unit), 0589-P2-0094 (Rocket only), MED BGV 424003-00.



STORAGE

This compact appliance is ideally stored in a water-resistant locker at ambient temperature allowing easy access in an emergency. The set of 4 appliances normally carried onboard can be dispersed in strategic positions throughout the vessel.

Linethrower 250

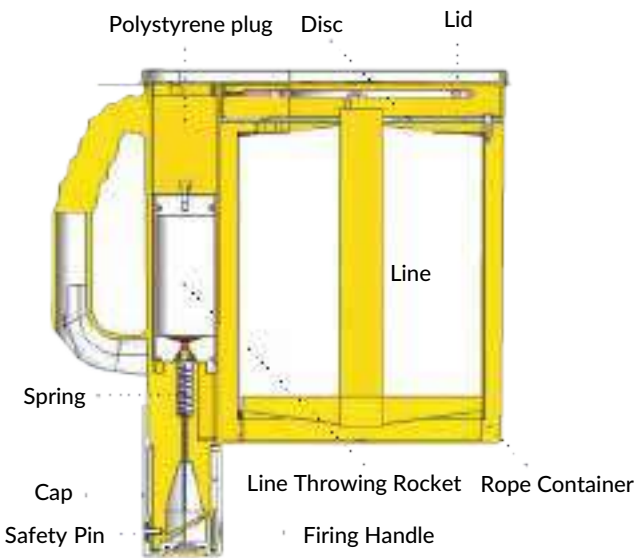


OPERATION

- 1. Wear Personal Safety Equipment (gloves, glasses, ear protection, helmet).
- 2. Remove the front cover and point in the desired flight direction.
- 3. Pull out safety pin.
- 4. Aim over the top of a target. Be prepared for recoil.
- 5. Turn grip to the left or right to fire.
- 6. If misfire occurs hold unit in firing position for at least 60 seconds, then dispose of overboard.

WARNING

- Ejects rocket projectile – do not point at people or property
- Do not fire in a confined space
- Keep out of reach of children
- For emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date



PRODUCT LIFE

- Body and line kit: 9 years
- Rocket minimum 3 years
- Spare rockets are available to replace consumed or time expired rockets.

DISPOSAL

- Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations.

SPECIFICATIONS

Projects a line to a nominal range of 250m in calm conditions	
Length	33cm (13.0in)
Height	31.3cm (12.3in)
Diameter	20.5cm (8.1in)
Gross Weight	4.7kg (10.36lb.)
Net Weight	4.4kg (9.7lb.)
Rocket Weight Max	535g (18.9oz.)
Explosive Content Max	106g (3.74oz.)
Line breaking strain	>2kn

SHIPPING INFORMATION

UN Number	0431
Proper Shipping Name	Articles, Pyrotechnic
Hazard class	1.4G

Body and Line, less rocket in packing case

Measurements	L:37cm (14.57in) x W: 27 cm (10.63in) x H: 27cm (10.63in)
Gross weight	4.2kg (9.2lb.)
Net weight	3.6kg (7.94lb.)
Other Information	Non-hazardous

20 Spare Rockets in metal tin in a fibreboard box

Measurements	L: 37cm (14.57in) x W: 27cm (10.63in) x H: 27cm (10.63in)
Gross Weight Max	13kg (28.66lb.)
Net Weight Max	10.70kg (23.59lb.)
Net Explosive Content per box	2.12kg (4.67lb.)
Other Information	Cargo Aircraft Only

Manoverboard MK9

Art No. 9537800 & ART No. 9538350 (Excluding Lights)

The Light and Smoke Lifebuoy marker emits dense orange smoke for 15 minutes and has two 15hr, inversion switched, flashing LED lights that meet USCG and exceed SOLAS requirements. Ships are required to have 2 markers – one on each bridge wing, mounted with brackets and attached to a 4kg Lifebuoy. This signal marks the position of a man overboard by day or night, automatically deploying when the lifebuoy is released or manually activated.

APPLICATION

- Day and night signal attached to 4kg lifebuoy and used in an emergency to mark the position of man overboard.
- Safe to use on petrol or oil covered water.
- Lithium batteries sealed for life – no annual replacement.
- Screw fit, inversion switched, LED light units.
- Automatic or manual deployment.
- Universal stainless steel mounting bracket.
- Usually mounted on a ship's bridge wing.
- Approved mounting height: 56m – but manufacturer tested to survive 100m drop into water (SOLAS only requires 30m).
- Ideal for use on ships or rigs with high freeboard.



FEATURES

- Provides 15 minutes of dense orange smoke
- Flashing 15hr lights, exceeds SOLAS requirements and meets USCG requirements.

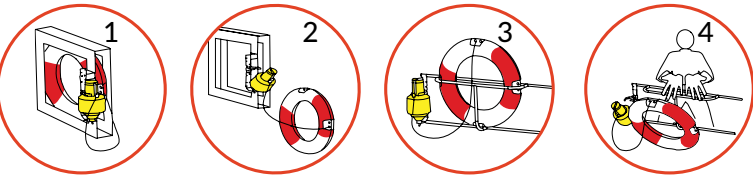
APPROVALS

Conforms to SOLAS 74 as amended. IMO Resolution MSC 81 (70) part 1. MED, USCG/UK MER and other major maritime authorities worldwide. Light & Smoke signal BGV 423013-01 , BuoySmoke BGV SEE07360000701, BAM PT2-0148.

STORAGE

This compact unit is ideally stored in good magazine conditions in an upright position, mounted to its stainless steel bracket in our original packaging. Onboard vessel: Two units are normally required to be carried. Mounted inverted and attached to a lifebuoy. Usually positioned on each bridge wing and need a clear, uninterrupted drop into the water.





DISPOSAL

Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations.

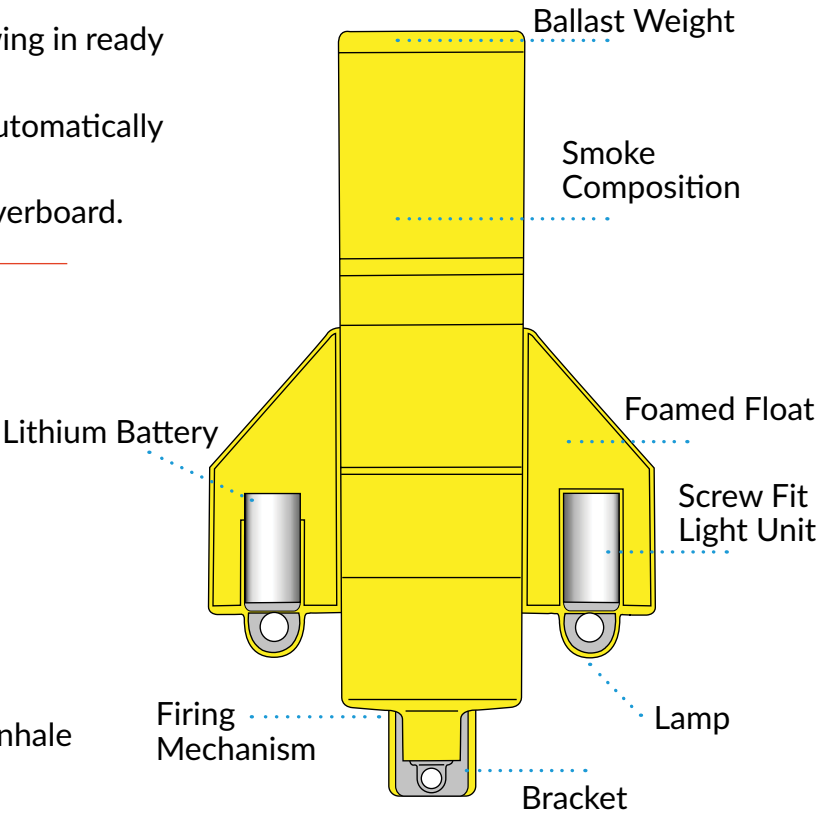
OPERATION

- 1. Signal and lifebuoy mounted on bridge wing in ready to fire position.
- 2. Release locking pin and lifebuoy falls, automatically deploying marker.
- 3. Alternatively, manually throw lifebuoy overboard.

WARNING



- Do not dismantle.
- Do not fire in a confined space.
- Keep out of reach of children.
- Only for emergency use at sea.
- If damaged or dented do not use.
- Keep away from source of heat.
- Do not use after expiry date.
- Produces dense orange smoke – do not inhale



SPECIFICATIONS		SHIPPING INFORMATION	
Height	375mm (14.76in)	UN Number	0507
Diameter	183mm (7.20in)	Proper Shipping Name	Signals, Smoke
Weight	3.3kg (7.27lb.)	Quantity per Box	2 x signals in 1 fibreboard box
Weight incl bracket and angles	3.85kg (8.5lb.)	Measurements of fibreboard box	36 x 27 x 40cm (14.2 x 10.6 x 15.8in)
Net Explosive Content	1.287kg (2.84lb.)	Net Weight Max	7.7kg (17lb.)
Lamps (bulbs)	2 x 3.6v 2.0A	Net Explosive Content per box Max	2.574kg (5.67lb.)
Temperature range	-30°C to +65°C	Other Information	Passenger and cargo aircraft
Burning time	15 minutes	Hazard Class	1.4S
Colour of light	White	Gross Weight	9.5kg (20.94lb.)
Duration	2 candela for 15 hours		
Use with lifebuoy weighing	4.0kg (8.82 lb.)		
Attach to lifebuoy with line	4m (13ft) long, 9.5mm (0.3 in) diameter		

Para Red Rocket MK8A

The Pains Wessex Red Parachute Signal Rocket conforms to SOLAS 74 as amended. Designed to withstand exceptional environmental exposure and to perform reliably even after immersion in water, the pull wire igniter and improved grip provides easy handling. Ejecting a red flare suspended on a parachute at 300m (985ft), burning for 40 seconds at 30,000 candela.



APPLICATION

A day or night long-range distress signal. It may be carried on ships bridge and there is a requirement for 4 in ships lifeboats and liferafts. Also suitable for use in other commercial and recreational boats.

FEATURES

- Universally recognised distress signal
- Visible up to 25 miles to support localised rescue
- SOLAS requires 12 rockets to be carried on a ships bridge

APPROVALS

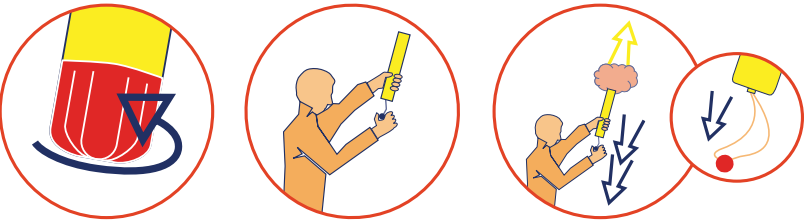
Conforms to SOLAS 74 as amended, IMO Resolution 81(70) and 96/98/EC. MED, USCG/UK MER and other major maritime authorities worldwide. BGV 425007-00, BAM-P2-0059, 0589-P2-0046.

STORAGE

Ideally, should be stored in the robust, specially designed Polybottle, or in a dry, easily accessed location at ambient temperature.



Para Red Rocket MK8A



OPERATION

- 1. Hold signal firmly by ribbed handle. Unscrew RED bottom cap. Do not point at people or property.
- 2. Hold rocket vertically above head pointing away from body.
- 3. Ensure hands remain clear of top. To fire – pull red ball sharply down.

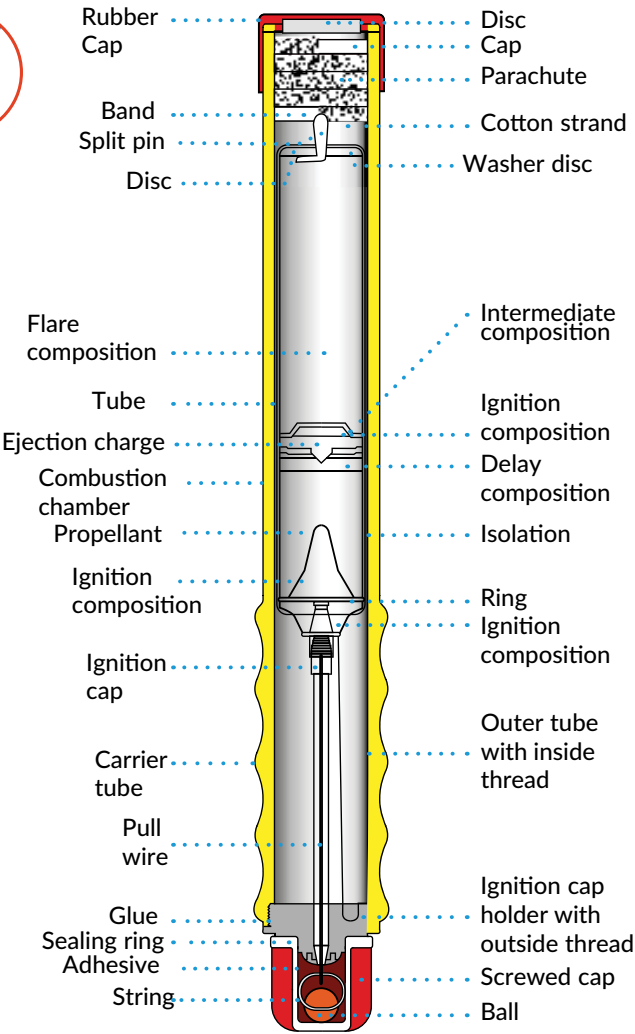
WARNING

- Ejects rocket projectile – do not point at people
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date



DISPOSAL

Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations.



SPECIFICATIONS		SHIPPING INFORMATION	
Length	287 mm (11.3")	UN Number	0505
Diameter at handle	38 mm (1.5")	Proper Shipping Name	Signals, Distress, Ship
Diameter	32 mm (1.25")	Quantity per Box	56 rockets
Weight Max	245 g (8.23 oz)	Box Type	2 metal tins in a fibreboard box
NEC Max	92 g (3.25 oz)	Measurements of fibreboard box	47 x 27 x 35 cm (18.5 x 10.6 x 13.8 in)
Light intensity	30,000 candela	Net Weight Max	13.7 kg (30.20 lb.)
Burning time	40 seconds	Net Explosive Content per box Max	5.152 kg (11.36 lb.)
Colour of light	Red	Other Information	Cargo Aircraft Only
Ignition	Pull-wire ignitor	Hazard Class	1.4G
Altitude	300m (985')	Gross Weight	16.3kg (35.93lb.)

Lifesmoke MK9

The Smoke Signal Orange is a compact, daylight distress signal designed to be easy and safe to handle.

It provides effective position marking during rescue operations and can be used to indicate wind direction, producing dense orange smoke for a minimum of 3 minutes.

APPLICATION

A 3 Minute Smoke Signal Orange is a compact, flat top, buoyant, daytime distress signal designed to be easy and safe to handle. It provides effective position marking during rescue operations and can be used to indicate wind direction, producing dense orange smoke for a minimum of 3 minutes.

FEATURES

- Signal for position marking during rescue operations
- Indicates wind direction
- Safe use on oil or petrol covered water
- SOLAS requires 2 smoke signals per raft/boat.
- Conforming to SOLAS 74 as amended
- Ideal also for leisure boats



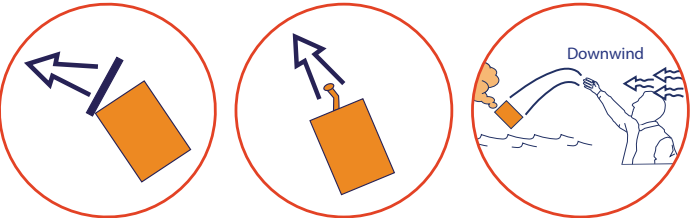
APPROVALS

Conforms to SOLAS 74 Res. MSC 81 (70) as amended, UK MER and other major maritime authorities worldwide. Approvals: MED BGV 423008-00, USCG 160.122/21/0, CE 0589, BAM-P1-0191, 0589-P1-0324

STORAGE

This compact unit is ideally stored in a water-resistant locker at ambient temperature allowing easy access in an emergency or in the robust, specially designed polybottle



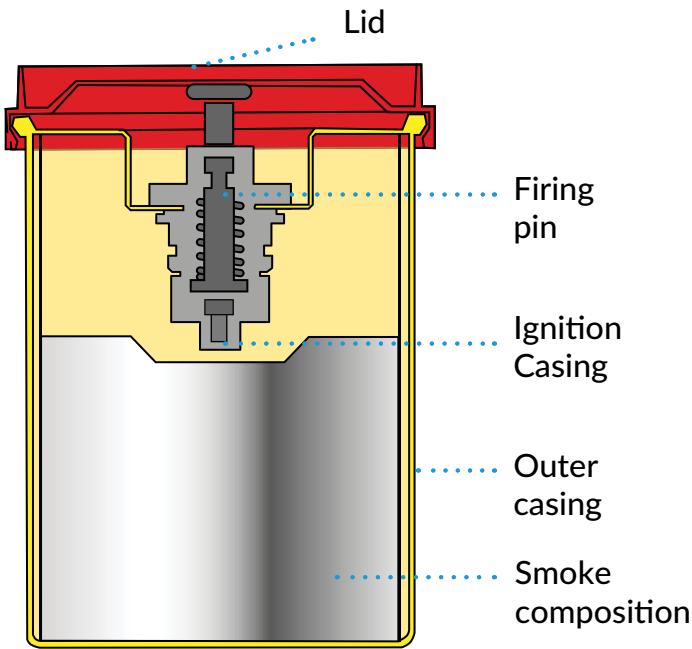


OPERATION

1. Remove plastic cap. Point away from body.
2. Pull tab firmly away from canister. Ensure hand remains clear of HOT END.
3. Throw Lifesmoke overboard immediately. Smoke will be emitted after a 2 second delay.

WARNING

- Produces dense orange smoke – do not inhale
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date



DISPOSAL

Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations.

SPECIFICATIONS		SHIPPING INFORMATION	
Height	114mm (4.5in)	UN Number	0507
Diameter	82mm (3.2in)	Proper Shipping Name	Signals, Smoke
Gross Weight Max	370g (13.05oz)	Quantity per Box	24 signals
NEC Max	239g (8.43oz)	Box Type	Fibreboard box
Burning time	3 minutes minimum	Measurements of fibreboard box	37 x 27 x 27cm (15 x 11 x 17in)
Colour of smoke:	Orange	Net Weight Max	8.90 kg (19.62lb.)
Ignition	Percussion ignitor with 2 seconds safety delay	Net Explosive Content per box Max	5.736 kg (12.64lb.)
		Other Information	Passenger and Cargo Aircraft
		Hazard Class	1.4S
		Gross Weight	9.40kg (20.72lb.)

Red Handflare MK8

The Red Handflare conforms to SOLAS 74 as amended. Designed to withstand exceptional environmental exposure and to perform reliably even after immersion in water. Featuring a telescopic handle with improved grip, making it very compact for stowage. Easily extended for safe handling and operation by pull wire igniter. Produces hot red flame for 60 seconds at 15000 candela.



APPLICATION

For use day or night the Pains Wessex Red Handflare is a short-range distress signal used to pinpoint position. May be carried on ships bridge and six are required to be fitted in ships lifeboats and liferafts.

FEATURES

- A telescopic handle with improved grip, making it very compact for stowage.
- Easily extended for safe handling and operation by pull wire igniter.
- Produces hot red flame for 60 seconds at 15000 candela.

APPROVALS

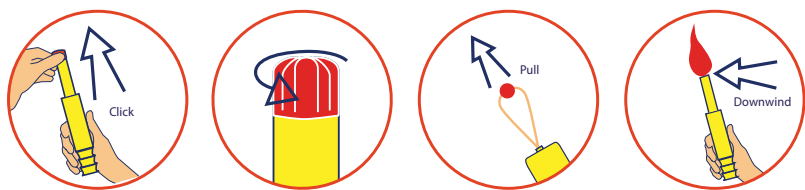
Conforms to: SOLAS 74 as amended, IMO resolution MSC. 81(70) Part 1, (MED) 96/98/EC, MED, USCG/UK MER and other major maritime authorities worldwide BGV 426005-00, BAM -P1-0594, 0589-P1-0617

STORAGE

Ideally should be stored in the robust, specially designed polybottle, or in a dry, easily accessed location at ambient temperature.



Red Handflare MK8



OPERATION

- 1. Pull out red end until telescopic tube is fully extended and engaged.
- 2. Unscrew red end cap and point away.
- 3. Pull ball out sharply to fire.
- 4. Hold at arms length. Point downwind. End plug ejects after 2 seconds delay.

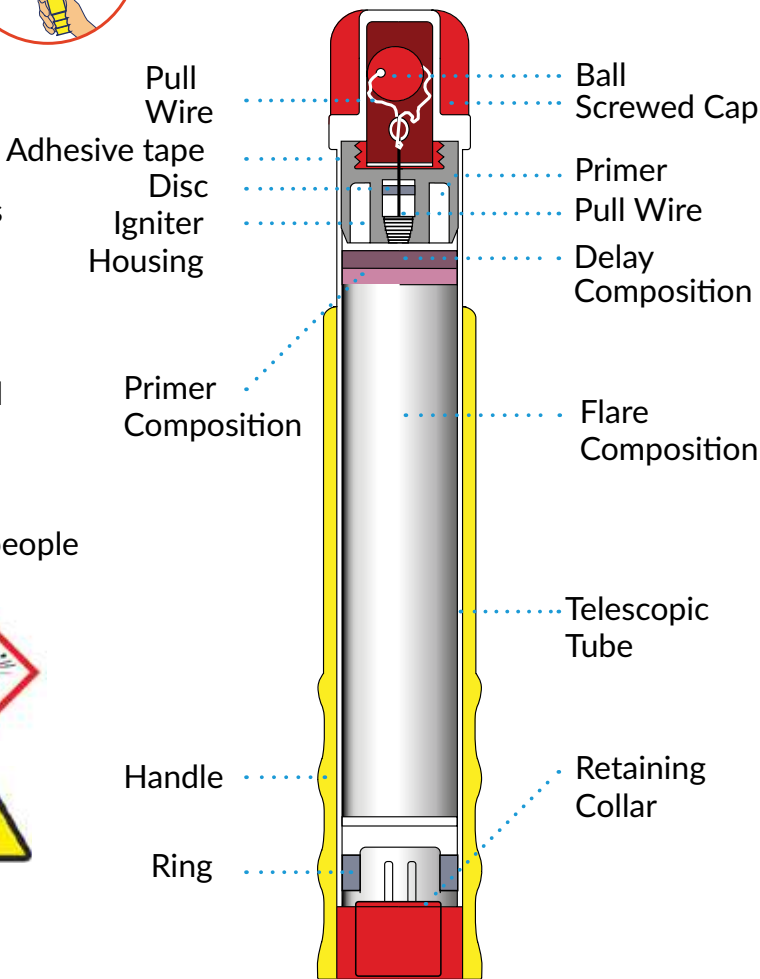
WARNING

- Produces red hot flame – do not point at people
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date



DISPOSAL

Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations.



SPECIFICATIONS

Length	175mm (6.9 inches)
Length with handle pulled out	280mm (11 inches)
Diameter	28mm (1.1 inches)
Weight	176g (6.2oz)
Light intensity	15,000 candela
Burning time	60 seconds
Colour of light	Red
Ignition	Pull-wire
Item No	9529000
Net Explosive Content Max	63g (2.22 oz)

SHIPPING INFORMATION

UN Number	0191
Proper Shipping Name	Signal devices, Hand
Quantity per Box	100
Box Type	Fibreboard
Measurements of fibreboard box	37 x 27 x 27cm (15 x 11 x 11in)
Net Weight Max	17.6kg (38.8lb.)
Net Explosive Content per box Max	6.3 kg (13.89 lb.)
Other Information	Cargo Aircraft Only
Hazard Class	1.4G
Gross Weight	18.2kg

Parachute Illuminating Rocket MK8

The Pains Wessex Parachute Illuminating Rocket is used in Search and Rescue operations at night or for collision warning. Designed to withstand exceptional environmental exposure and to perform reliably even after immersion in water.

APPLICATION

A day or night collision warning signal, or used at night to illuminate areas for Search and Rescue operations. Suitable for use in commercial vessels, recreational boats and rescue services.

FEATURES

- The rocket ejects a white flare suspended on a parachute at 300m (ft).
- Burns for 30 seconds at 90,000 candela.
- The pull wire igniter and improved grip provides easy handling.



DISPOSAL

Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations. For help and advice, visit our website

APPROVALS

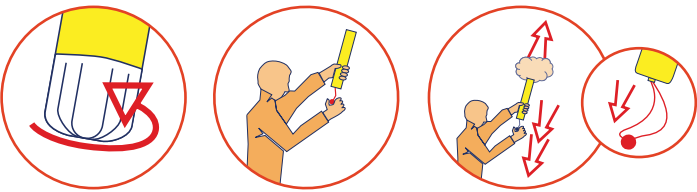
CE 0589, BAM PT2-0142



STORAGE

Ideally should be stored in the robust, specially designed polybottle, or in a dry, easily accessed location at ambient temperature.

Parachute Illuminating Rocket MK8

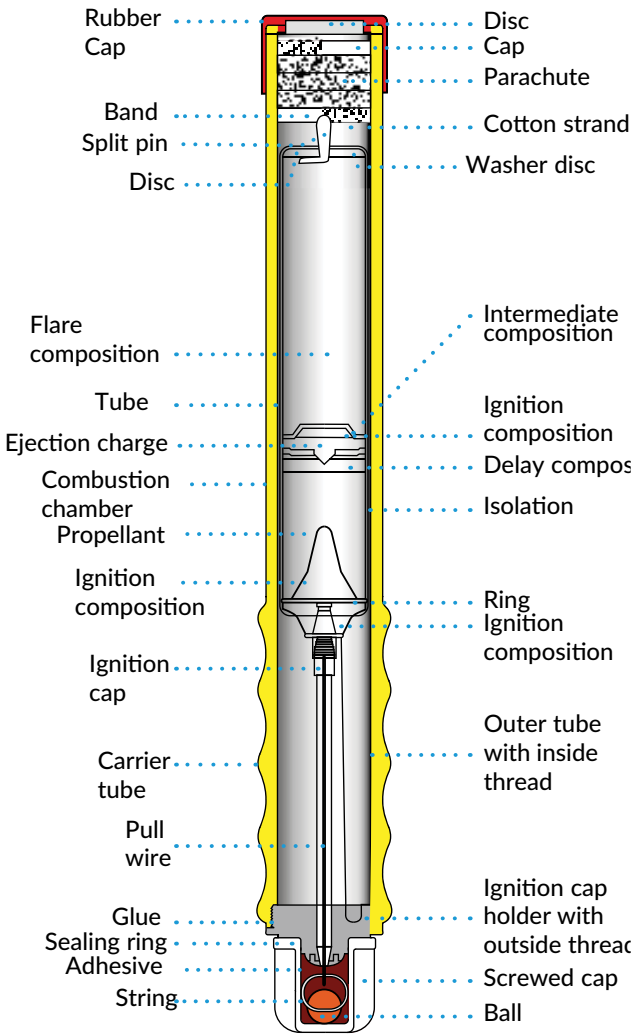


OPERATION

- 1. Hold signal firmly by ribbed handle. Unscrew WHITE bottom cap. Do not point at people or property.
- 2. Hold rocket vertically above head pointing away from body.
- 3. Ensure hands remain clear of top. To fire – pull red ball sharply down.

WARNING

- Produces white hot flame – do not point at people
- Produces dense orange smoke – do not inhale
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date



DISPOSAL

Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations.

SPECIFICATIONS		SHIPPING INFORMATION	
Length	287mm (11.3in)	UN Number	0505
Diameter	32mm (1.25in)	Proper Shipping Name	Signals, Distress, Ship
Diameter at handle	38mm (1.5in)	Quantity per Box	56 rockets in 2 metal tins in a fibreboard box
Weight	260g (9.17 oz)	Box Type	Fibreboard box
Net Explosive Content	92g (3.2 oz)	Measurements of fibreboard box	47 x 27 x 35cm (18.5 x 10.6 x 13.8in)
Ignition	Pull-wire ignitor	Net Weight Max	14.6kg (32.18 lb.)
Light intensity	90,000 candela	Net Explosive Content per box Max	5.152kg (11.36 lb.)
Colour of light	White	Other Information	Cargo Aircraft Only
Burning time	30 seconds	Hazard Class	1.4G
Altitude	300m (985 ft)	Gross Weight	17.2kg (37.92 lb.)

White Handflare MK8

The White Handflare is for use as a collision warning signal or for illumination of small areas. Designed to withstand exceptional environmental exposure and to perform reliably even after immersion in water. Featuring a unique telescopic handle with improved grip, making it very compact for stowage.

APPLICATION

For use by day or night as a short-range collision warning signal, to pinpoint position and to illuminate small areas at night. These may be carried on the ship's bridge and are recommended for yachts making night passages.

FEATURES

- Easily extended for safe handling
- Operation by pull wire igniter
- Produces hot white flame for 60 seconds at 2,500 candela.

Also available is the similar red handflare (Art No. 9162800), which is used to signal distress.



DISPOSAL

Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations. For help and advice, visit our website

APPROVALS

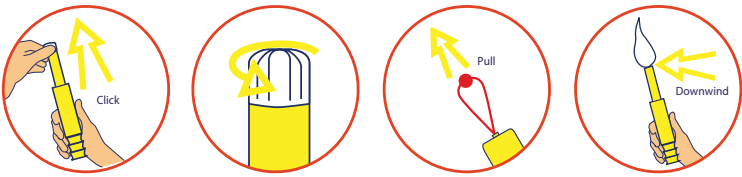
CE 0589, BAM PT1-1169



STORAGE

The telescopic handle saves stowage space. Ideally, both red and white handflares should be stored in our robust, specially designed polybottles, or in a dry, easily accessed location at ambient temperature. Do not store near sources of heat.

White Handflare MK8

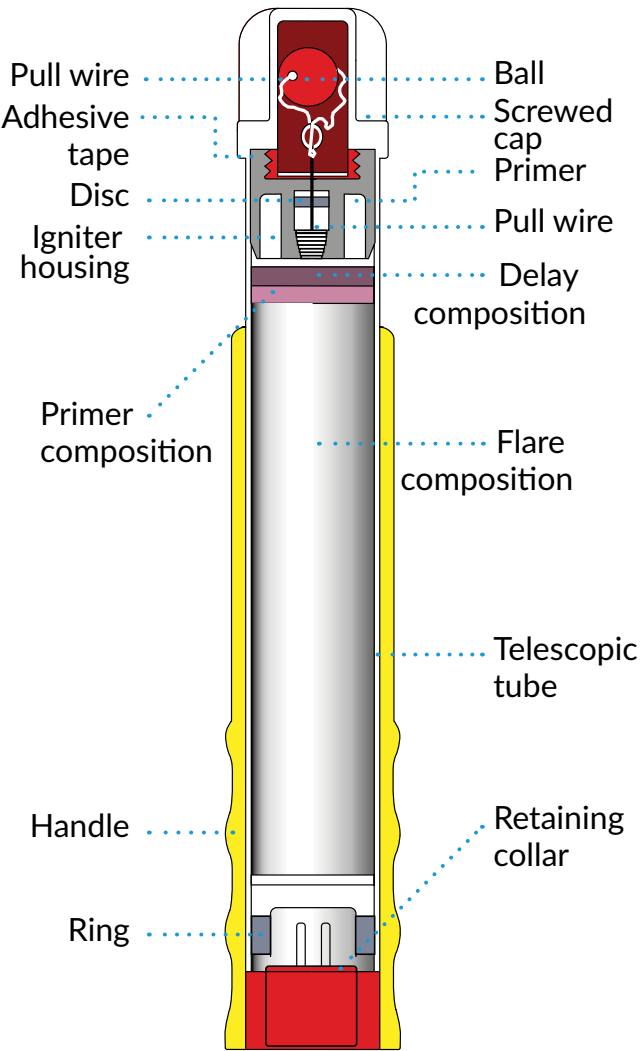


OPERATION

- 1. Pull out white end until telescopic tube is fully extended and engaged.
- 2. Unscrew white end cap and point away.
- 3. Pull ball out sharply to fire.
- 4. Hold at arms length. Point Downwind. End plug ejects after 2 seconds delay.

WARNING

- Produces white hot flame – do not point at people
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date



SPECIFICATIONS

Length	175mm (6.9in)
Length with handle pulled out	280mm (11in)
Diameter	28mm (1.1in)
Weight	170g (6.003oz)
Net Explosive Content	60g (2.12oz)
Ignition	Pull wire ignitor
Burning time	60 seconds
Light intensity	2,500 candela
Colour of light	White

SHIPPING INFORMATION

UN Number	0191
Proper Shipping Name	Signal Devices Hand
Quantity per Box	100
Box Type	Fibreboard box
Measurements of fibreboard box	37 x 27 x 27cm (15 x 11 x 11in)
Net Weight Max	17kg (37.48 lb.)
Net Explosive Content per box Max	6kg (13.23lb.)
Other Information	Cargo Aircraft Only
Hazard Class	1.4G
Gross Weight	17.6kg (38.80lb.)

Orange Handsmoke MK8A

The Orange Handsmoke is a hand-held marine distress signal for daytime use to indicate position and wind direction. Produces dense orange smoke for 60 seconds.

APPLICATION

Daytime, short range distress signal, used to pinpoint position and indicate wind direction once potential rescuer is sighted. Ideal for use on yachts, dinghies, RIBs, canoes and is included in our Inshore and Coastal kits.

FEATURES

- Water resistant case ideal for extreme marine conditions
- Maximised output in a compact design
- Buoyant design



DISPOSAL

Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations. For help and advice, visit our website

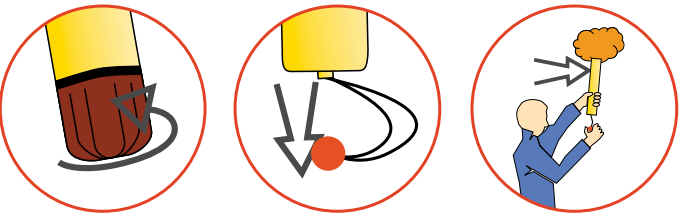
APPROVALS

CE 0589, BAM -P1-0594, 0589-P1-0617



STORAGE

Should be stored in either the mini or large Polybottle in a dry, easily accessed location at ambient temperature.

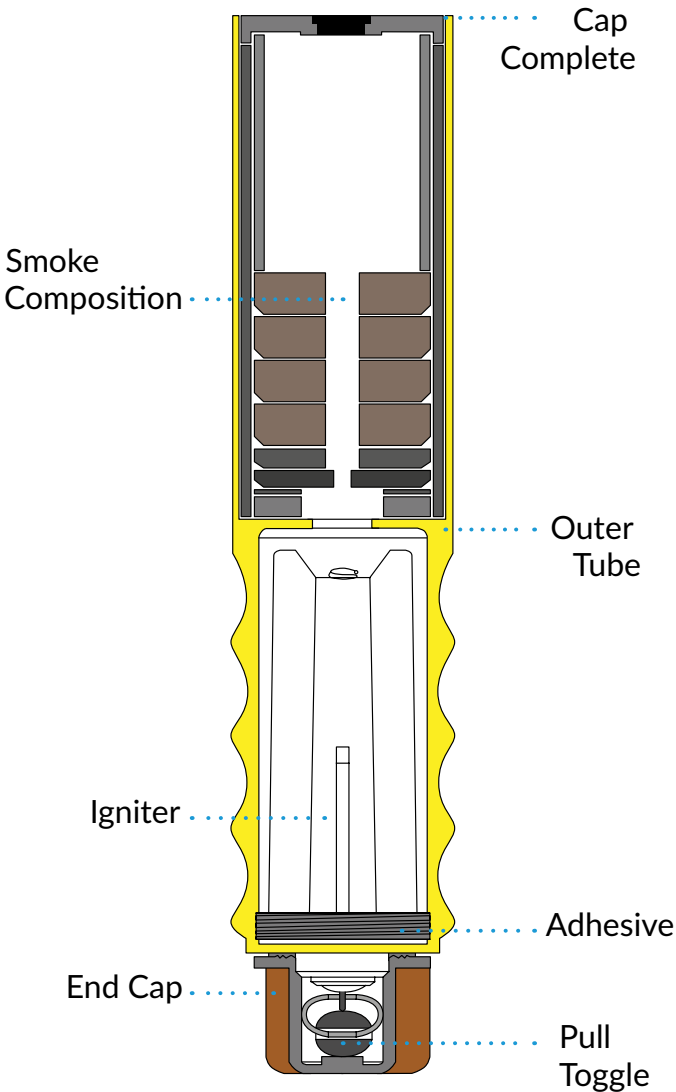


OPERATION

- 1. Unscrew bottom brown end cap and point away from body
- 2. To ignite – pull toggle down sharply
- 3. Hold at arms length, downwind and outboard

WARNING

- End plug ejected – do not point at people
- Produces dense orange smoke – do not inhale
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date



SPECIFICATIONS		SHIPPING INFORMATION	
Length	24.3cm (9.57in)	UN Number	0507
Diameter	3.8cm (1.5in)	Proper Shipping Name	Signals, Smoke
Weight	165g (5.82oz)	Quantity per Box	50
Net Explosive Content	55.5g (1.96oz)	Box Type	Fibreboard box
Ignition	Pull wire ignitor	Measurements of fibreboard box	37 x 27 x 27cm (15 x 11 x 11in)
Burning time	60 seconds	Net Weight Max	8.3kg (18.3lb.)
Colour of smoke	Orange	Net Explosive Content per box Max	2.775kg (6.12lb.)
		Other Information	Cargo Aircraft Only
		Hazard Class	1.4S
		Gross Weight	8.8kg (19.4lb.)

Day & Night Distress Signal MK8

The compact, handheld Pains Wessex Day & Night Signal consists of a red flare at one end and an orange smoke at the other. Housed in a rugged, corrosion-resistant case and protected by end caps with 'O' ring seals.

APPLICATION

This handheld signal has been designed for personal distress signalling and is ideal for divers, windsurfers, dinghy sailors and small boats operating inshore as well as outdoor pursuits such as mountaineering, and was originally designed for helicopter/aircrew.

FEATURES

- Incorporates a red flare (15,000 candela) for night and day use
- Includes dense orange smoke for daytime use
- Water resistant case ideal for extreme marine conditions



POLYBOTTLES

Rugged, buoyant containers, ideal for storing distress signals. Can be easily picked up in an emergency.

Item no. 9569000
Large Polybottle (waterproof)
12 litre (2.64gal) capacity

Item no. 9870050
Mini Polybottle (water resistant)
3 litre (0.8gal) capacity



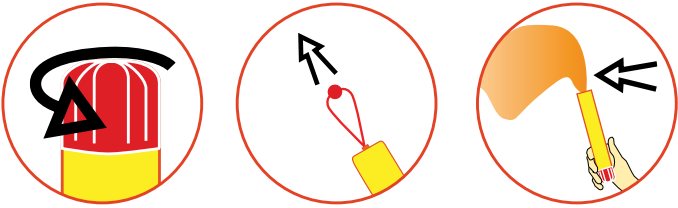
APPROVALS

CE 0589, BAM PT1-1109



STORAGE

Ideally should be stored in the robust, specially designed polybottle, or in a dry, easily accessed location at ambient temperature.



OPERATION

1. Select the end to be used – smoke by day, flare at night. Due to its high power the flare also has good visibility by day if required. The Signal has colour coded and ribbed end caps to aid identification at night.
2. Unscrew red end cap and point away.
3. Pull ball out sharply to fire.
4. Hold at arms length. Point Downwind. End plug ejects after 2 seconds delay.

WARNING

- Produces red hot flame – do not point at people
- Produces dense orange smoke – do not inhale
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use at sea
- If damaged or dented do not use
- Do not dismantle
- Keep away from source of heat
- Do not use after expiry date

DISPOSAL

Pyrotechnics must be treated as hazardous items and must be disposed of responsibly in accordance with local regulations.



SPECIFICATIONS		SHIPPING INFORMATION	
Length	190mm (7.48")	UN Number	0191
Diameter	30mm (1.18")	Proper Shipping Name	Signal Devices, Hand
Weight	187g (6.603oz)	Quantity per Box	100
Net Explosive Content	51.49g (1.8 oz)	Box Type	Fibreboard carton
Ignition	pull-wire ignitor	Measurements of fibreboard box	37 x 27 x 27 cm (15 x 11 x 11 in)
Flare burning time	20 seconds	Net Weight Max	18.7 kg (41.23 lb.)
Light intensity	15,000cd	Net Explosive Content per box Max	5.14 kg (11.33 lb.)
Colour of light	Red	Other Information	Cargo Aircraft only
Smoke duration:	18 seconds	Hazard Class	1.4G
Colour of smoke	Orange	Gross Weight	19.3 kg (45.55 lb.)

Personal Distress Signals Miniflare MK8

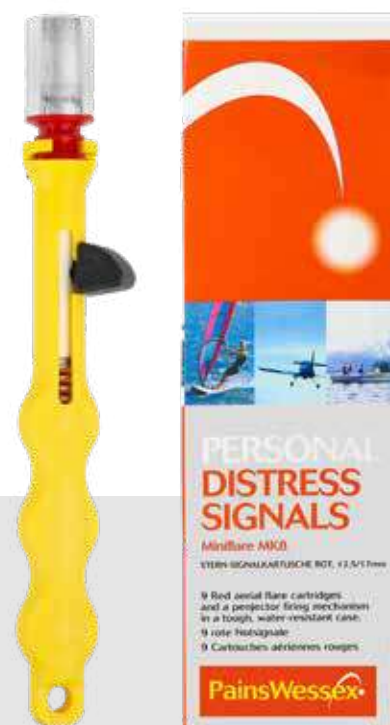
The lightweight, Pains Wessex Personal Distress Signals Miniflare MK8 pack contains 9 red aerial flare cartridges and a penjector firing mechanism, all enclosed in a tough, water-resistant case. The penjector is fitted with a stainless-steel spring and striker pin. It features a slot for easy loading and unloading of the flare cartridge with the trigger in the safety catch position.

APPLICATION

Pains Wessex Personal Distress Signals Miniflare MK8 are designed primarily for use on yachts, dinghies, personal water craft, canoes and sailboards, but have many applications as a general-purpose distress signal for aviation, hill-walking, climbing, skiing and other outdoor pursuits. Each cartridge projects its payload to a height of 50 metres, burns for over 5 seconds at a minimum of 10,000 candela and is visible for at least 5 miles in daylight increasing to 10 miles at night, depending on weather conditions. Operating instructions are on the case.

FEATURES

- For use in day and night distress signal situations.
- Up to 10 mile visibility
- Self consuming cartridges designed for easy loading



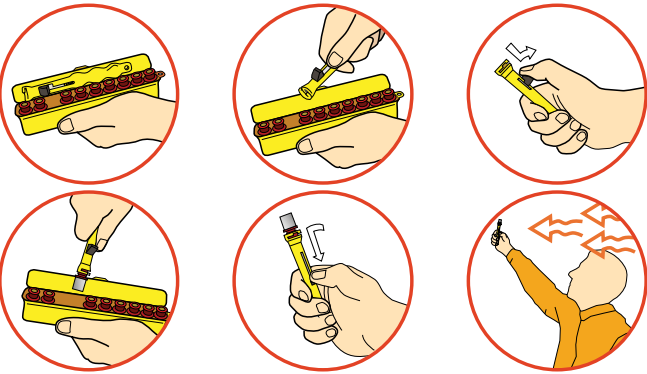
APPROVALS

CE 0589, BAM 0589-P1-0871



STORAGE

When not carried, the signal should be stored in our robust, specially designed Polybottle, or in a dry location at ambient temperature.



OPERATION

1. Open case.
2. Remove penjector from pack.
3. Place trigger in safety catch position.
4. Load the flare cartridge by sliding into slot on penjector.
5. To fire, hold the penjector firmly at arms length above and away from face and body, pull back penjector trigger and release – fire vertically and be prepared for slight recoil and loud report.

WARNING

- Ejects projectile – do not point at people or property
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use
- Keep away from sources of heat
- Do not use after expiry date
- If damaged or dented do not use
- Do not dismantle

SPECIFICATIONS		SHIPPING INFORMATION	
Height	50 metres (164')	UN Number	0312
Dimensions	180mm x 58mm x 25mm (7.1 x 2.28 x 1.0in)	Proper Shipping Name	Cartridges, Signal
Weight	190g (6.7oz) in display box 147g (5.19oz) just the magazine filled with nine cartridges and the signal pen	Quantity per Box	50
Net Explosive Content	Approx 48g per set (1.69oz) 5.25g per cartridge (0.19oz)	Box Type	Fibreboard carton
Burning time	over 5 seconds	Measurements of fibreboard box	37 x 27 x 27cm (15 x 11 x 11in)
Light intensity	10,000 candela	Net Weight Max	9.5kg (20.94 lb.)
		Net Explosive Content per box Max	2.4kg (5.29lb.)
		Other Information	Cargo Aircraft only
		Hazard Class	1.4G
		Gross Weight	10.1kg (22.27 b.)

Compact Distress Signals Miniflare MK8

The lightweight, Pains Wessex Compact Signal Launcher contains 3 red aerial flare cartridges and a penjector firing mechanism, all enclosed in a tough, water-resistant case. The penjector is fitted with a stainless-steel spring and striker pin. It features a slot for easy loading and unloading of the flare cartridges. These are stored inside the casing on an elastic lanyard to avoid them being lost when the base cap is unscrewed.

APPLICATION

Compact Signal Launchers are designed primarily for use on yachts, dinghies, Personal Water Craft, canoes and sailboards, but have many applications as a general-purpose distress signal for aviation, hill-walking, climbing, skiing and other outdoor pursuits. Each cartridge projects its payload to a height of 50 metres, burns for over 5 seconds at a minimum of 10,000 candela and is visible for at least 5 miles in daylight increasing to 10 miles at night, depending on weather conditions. Operating instructions are on the case.

FEATURES

- For use in day and night distress signal situations.
- Up to 10 mile visibility
- Self consuming cartridges designed for easy loading



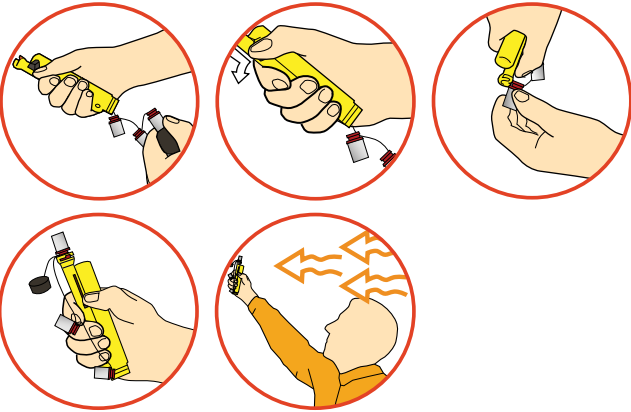
APPROVALS

CE 0589, BAM 0589-P1-0871



STORAGE

When not carried, the signal should be stored in our robust, specially designed Polybottle, or in a dry location at ambient temperature.



OPERATION

- 1. Unscrew base cap.
- 2. Place trigger in safety catch position.
- 3. Load the flare cartridge attached to lanyard by sliding into slot on penjector.
- 4. To fire, hold the penjector firmly at arms length above and away from face and body, pull back penjector trigger and release – fire vertically and be prepared for slight recoil and loud report.

WARNING

- Ejects projectile – do not point at people or property
- Do not fire in a confined space
- Keep out of reach of children
- Only for emergency use
- If damaged or dented do not use
- Do not dismantle
- Keep away from sources of heat
- Do not use after expiry date



SPECIFICATIONS		SHIPPING INFORMATION	
Height	50 metres (164')	UN Number	0312
Dimensions	145mm x 40mm x 25mm (5.7 x 1.6 x 1.0 in)	Proper Shipping Name	Cartridges, Signal
Weight	125g (4.41oz) in display box 80g (2.82oz) just the signal pen filled with three cartridges	Quantity per Box	50
Net Explosive Content	Approx 16g per pack (0.56 oz) 5.25g per cartridge (0.19 oz)	Box Type	Fibreboard carton
Burning time	5 seconds	Measurements of fibreboard box	37 x 27 x 27cm (15 x 11 x 11 in)
Light intensity	10,000 candela	Net Weight Max	6.3 kg (13.89 lb.)
		Net Explosive Content per box Max	0.8 kg (1.76 lb.)
		Other Information	Cargo Aircraft only
		Hazard Class	1.4G
		Gross Weight	6.9 kg (15.21 lb.)

Calibre 4/26.5mm. Art Nos. Pistol 9129000

Signal Pistol and Cartridges

The signal pistol is classified as a firearm and can only be purchased through authorised channels on presentation of a valid firearms licence. Handling and transport must be carried out in accordance with the local firearms regulations and the terms of the licence.

SIGNAL PISTOL FEATURES

- Solid and robust, easy to operate.
- The body is made of a special polymer which is highly impact, temperature and UV resistant.
- The barrel is stainless steel guaranteeing a lifetime of 2000 shots.
- Fires range of distress, illuminating, maroon and signalling.
- Can be used for flare stack lighting.



SIGNAL CARTRIDGE FEATURES

- Easy handling
- Easy identification
- Coloured caps signify flare colour and notched edges aid identification at night
- Red = Full edging and signals distress
- White = half edging and signals collision warning and briefly illuminates the foreground
- Green = no edging and used as a general signal
- Maroon = no edging and produces an acoustic and optical signal (flash and bang)



STORAGE

When not carried, the cartridges can be stored in our robust, specially designed Polybottle, or in a dry location at ambient temperature. The pistol should be stored in the supplied carry/storage case.

SPECIFICATIONS

SIGNAL PISTOL

Total length	199.8mm (7.9in)
Length of barrel	154.8mm (6.1in)
Pistol weight	528g (18.62oz)



WARNING

- The trade in firearms requires an arms trade permit
- Purchase of firearms is only allowed if you possess a valid firearm licence.

SPECIFICATIONS

SIGNAL CARTRIDGES

Length	80mm (3.15in)
Diameter	26.5mm (1in) (Cal.4)
Cartridge case	Plastic
Height	100m (328ft) +/-20m (66ft)
Burning time	8 seconds
Art No. 9182000 = Red >30,000 candela	Net Explosive Content: 15g (0.53oz) Weight: 38g each (0.99oz)
Art No. 9182100 = White >40,000 candela	Net Explosive Content: 26.5g (0.93oz) Weight: 45g (1.59oz)
Art No. 9182200 = Green >10,000 candela	Net Explosive Content: 15g (0.53oz) Weight: 38g each (1.34oz)
Art No. 9122500 = Maroon	Net Explosive Content: 13g (0.46oz) Weight: 62g each (2.19oz)
Cartridge case	Aluminium
Height	120m (394 ft)
Produces a flash with a cloud of smoke and a loud report of 170 decibels at 3m (10ft) distance and 1m (3.3ft) height	

SHIPPING INFORMATION

SIGNAL CARTRIDGES

UN Number	0312 Maroon 0054
Proper Shipping Name	Cartridges, Signal
Quantity per Box	10 Signal cartridges in a inner paper carton 250 Cartridges in fibreboard box (25 inner boxes per carton)
Measurements of carton	L37 x W27 x H27cm (L14.57xW10.63xH10.63in)
Gross Weight	Red: 11.7kg (25.79 lb.) White: 13.5kg (29.77lb.) Green: 11.7kg (25.79lb.) Maroon: 17.7kg (39.02lb.)

SHIPPING INFORMATION

Net Weight without inner box	Red: 9.5kg (20.94lb.) White: 11.3kg (24.91lb.) Green: 9.5kg (20.94lb.) Maroon: 15.5 kg (34.17lb.)
Net Explosive Content per carton	Red: 3.8kg (8.38lb.) White: 6.6kg (14.55lb.) Green: 3.8kg (8.38lb.) Maroon: 3.3kg (7.28lb.)
Measurements of carton	37 x W 27 x H 27cm (L14.57xW10.63xH10.63in)
Other Information	Cargo Aircraft Only
Hazard Class	1.4G, Maroon 1.3G

PISTOL

Pistol supplied in plastic briefcase	
Total weight (inc. briefcase)	Approx 0.95kg (2.1lb)

Emergency Rations: Survival Nutritional Pack

Pains Wessex Emergency Rations provide high energy food for emergency survival. Approved world-wide for use on board lifeboats and liferafts, our compact emergency rations have been developed to offer the highest quality rations manufactured under stringent German standards.

FEATURES

- Compact size for ease of transport and storage
- Ready to use, consumed directly from the packet
- 5-year shelf life
- Vacuum packed and watertight alu-foil
- Vegan
- Halal
- GMO and nut free
- Dropped and tumble tested to ensure durability
- Contains optimal ratio of balanced nutrition



APPROVALS

Approvals Complies with: ISO 18813:2022 and SOLAS IMO Resolution MSC.48(66) LSA Code as amended



INGREDIENTS

Wheat flour, vegetable fat (palm), sugar, may contain traces of soy & milk

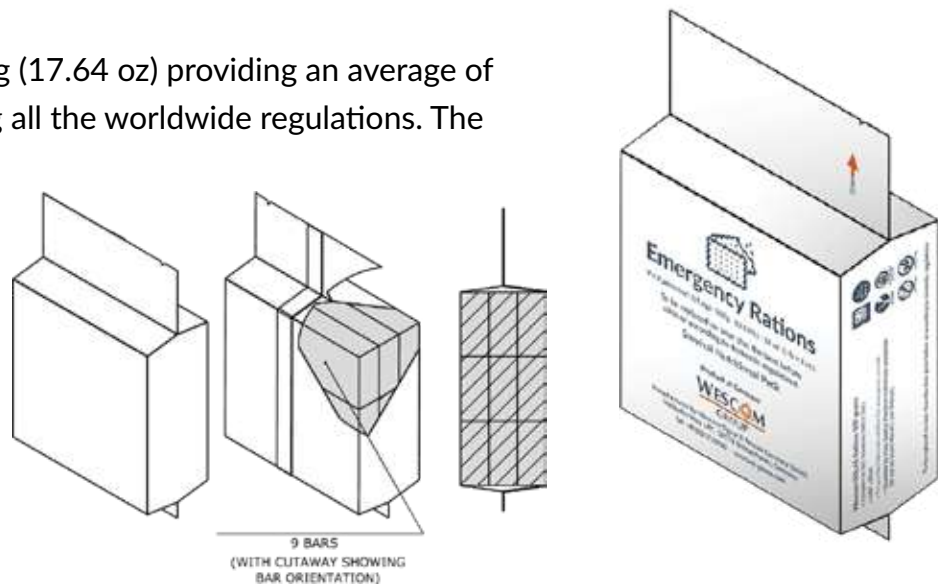
AVAILABILITY

Available from Wescom Group's global distribution partners.

Emergency Rations: Survival Nutritional Pack

Pains Wessex survival ration food pack conforms to ISO18813:2022 and is approved by Lloyds Register and the USCG to meet requirements for survival food. The pack consists of nine high energy wrapped bars in a vacuum sealed alu-foil pack to maintain freshness.

Each food pack weighs 500g (17.64 oz) providing an average of 10,510kJ of energy meeting all the worldwide regulations. The packaging has been thoroughly tested to provide product durability and keeps fresh for 5 years.



ENG	CHI	JAP	NOR	GRE	FRE	SPA	GER	
Nutrition facts per	营养成分 (每份)	あたりの栄養成分	Næringsfakta pr	Διατροφικά στοιχεία ανά	Informations nutritionnelles par	Datos nutricionales por	Nährwertangaben pro	100 g
Energy	能量	エネルギー	Energi	Ενέργεια	Énergie	Energía	Energie	2,030 kJ/ 484 kcal
Fat	脂肪	脂質	Fett	Λίπος	Graisses	Grasa	Fett	19.6 g
- of which saturates	- 饱和脂肪酸	- 飽和分	- hvorav mettede fettsyrer	- εκ των οποίων κορεσμένα	- dont saturées	- de la cual saturada	- davon gesättigte Fettsäuren	10.7 g
Carbohydrates	碳水化合物	炭水化物	Karbohydrater	Υδατάνθρακες	Glucides	Carbohidratos	Kohlenhydrate	67.2 g
- of which sugars	- 糖	- 糖分	- hvorav sukkerarter	- εκ των οποίων σάκχαρα	- dont sucres	- de los cuales azúcares	- davon Zucker	12.7 g
Protein	蛋白质	タンパク質	Protein	Πρωτεΐνη	Protéines	Proteína	Eiweiß	8.5 g
Salt	盐	塩	Salt	Άλας	Sel	Sal	Salz	<0.03 g

LOGISTICS	
Box Dimensions	H 105mm W 112mm D 47mm
Carton	17 units
Net Weight	8.5kg
Gross Weight	9.5kg (20.95lb.)
Carton Dimensions	375 x 270 x 155 mm
Volume	0.016 cbm

Pallet size (inc pallet)	H 1700mm W 800mm L 1200mm
Pallet Weight	877kg
Shipping box per Euro Pallet	90 (1,530 Units)

MANUFACTURE

Manufactured by survival solutions specialist Wescom Group, the Comet brand Emergency Rations Pack is manufactured to the highest quality control standards, in a purpose built production facility in Bremerhaven, Germany.

Emergency Drinking Water

Pains Wessex Emergency Drinking Water provides superior quality drinking water for emergency survival. Approved world-wide for use on board lifeboats and liferafts, our emergency drinking water has been manufactured under stringent German hygiene control standards and is globally approved to meet ISO standard 18813:2022 and Directive (EU) 2020/2184.

APPLICATION

Pains Wessex 500ml (16.9 fl.oz) Emergency Drinking Water contains 4 x 125ml (4.227 fl.oz) alu-foil sachets. Cartons are available as 23 x 500ml (16.9 fl.oz) units with a weight of 11.5 kg (25.35 lb.) net/carton. The high-quality packaging also includes directions for use in multiple languages. The product meets the updated 2022 ISO standard for a five year shelf life and the flexible packets offer minimum weight and are easy to stow. Product can also be consumed in a frozen condition.

FEATURES

- Compact and flexible packaging for ease of transport and storage very compact for stowage.
- Ready to use, consumed directly from the packet.
- Packed in nitrogen rich air and watertight alu-foil.



APPROVALS

Approvals Complies with: ISO 18813:2022 and SOLAS IMO Resolution MSC.48(66) LSA Code as amended

INGREDIENTS

Drinking water.



MANUFACTURE

Manufactured by survival solutions specialist Wescom Group, the Pains Wessex brand Emergency Drinking Water is manufactured to the highest quality control standards, in a purpose built production facility in Bremerhaven, Germany.

INSTRUCTIONS

- Drink Directly from the sachet
- Save drinking water, drink maximum of 0.5L every 24 hours

WARNING

- Global Approvals
- Compact and flexible packaging for ease of transport and storage
- Ready to use, consumed directly from the packet.
- 5 years shelf life
- Water Resistant packaging to increase durability.
- Packed in nitrogen rich air and watertight alu-foil
- Dropped and tumble tested to ensure maximum durability.
- Approvals Complies with: ISO 18813:2022 and SOLAS IMO Resolution MSC.48(66) LSA Code as amended.



SPECIFICATIONS

SACHETS

Material	Alu foil
Content	125ml (4.227fl.oz) water
Dimensions	100mm (3.94in) x 170mm (6.70in) x 15mm (0.60in)

PACKET

Material	Clear plastic bag
Content	500ml (0.5 litre) containing 4 inner sachets of 125ml (4.227fl.oz)
Dimensions	H 23cm W 10.5cm D 4cm

CARTON

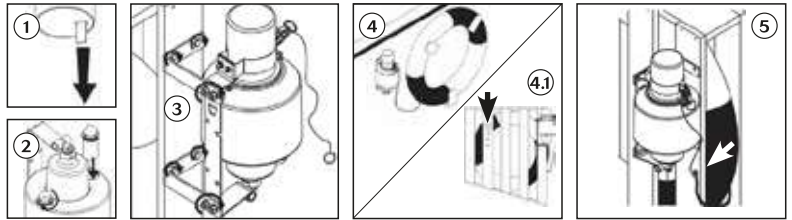
Content	23 x 500 ml
Net Weight	11.5 kg
Gross Weight	12.8 kg
Volume	11,500 ml
Dimension	375 x 270 x 265 mm
Box Volume	0,375x0,27x0,265 = 0,027 cbm

PALLET

Pallet size (inc pallet)	H 1700mm W 800mm L 1200mm
Pallet Weight	877kg
Shipping box per Euro Pallet	54 (1242 Sachets)

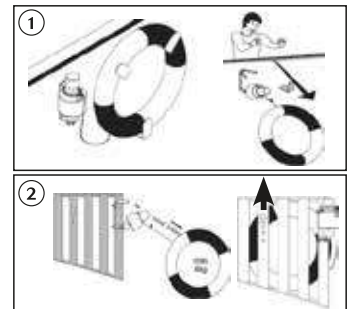
MANOVERBOARD MK9: MOUNTING INSTRUCTIONS

1. Remove transittag from base of light units. Check lights work by inverting units. Note: Lights only operate when upright and without transit tags.
2. Screw lights firmly into their holders in the float.
3. Fasten mounting bracket on outside of bridge wing bulwarks. Select mounting point to avoid vibration as much as possible. With Lifebuoy shute – fasten the right angled brackets on outboard side of lifebuoy shute. Screw mounting bracket to right angled brackets.
4. Install lifebuoy into bracket (4). Or install lifebuoy into shute and fix by locking pin. (4.1)
5. Tie the connection line of the lifebuoy to the pull cord of the Light Smoke signal. (Minimum 3.6m of line).



MANOVERBOARD MK9: OPERATING INSTRUCTIONS

1. In case of a man overboard, throw lifebuoy overboard and the signal will be released automatically.
2. Attached to Lifebuoy shute: Remove pin and weight off lifebuoy will automatically release the signal. Signal produces dense orange smoke for 15 minutes minimum and two white lights far exceed the minimum requirement of 2 hours at 2 candela.

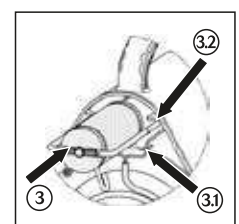
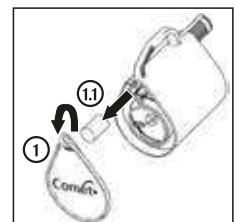
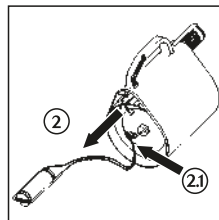


MANOVERBOARD MK9: TESTING THE LIGHTS

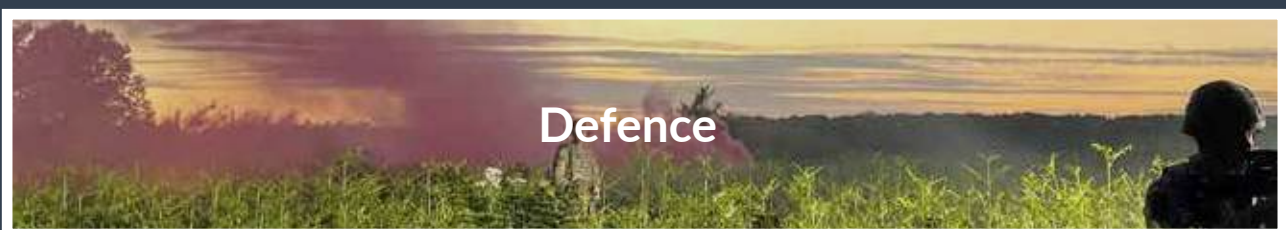
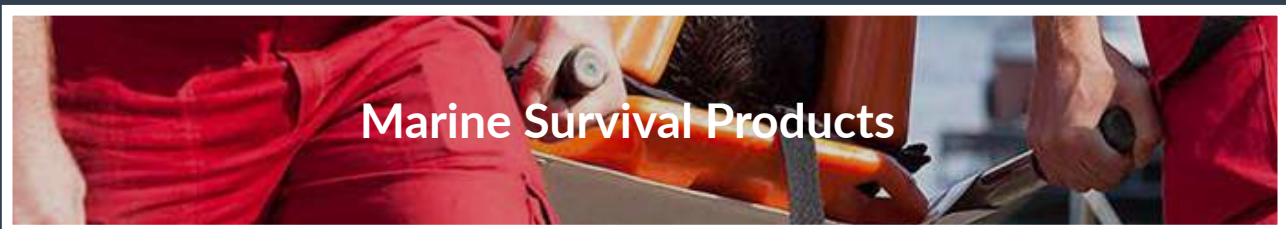
1. The signal is designed to be 'fit and forget' for it's entire service life.
2. Annual testing of lights is not required.
3. The LED lights are operated by a lithium battery and a tilt switch. They will remain 'OFF' until the signal is turned upright.
4. If a light test is required, Each light unit can be carefully unscrewed and removed from the holder.

LINETHROWER 250: ROCKET INSTALLATION INSTRUCTIONS

1. Inspect the container before changing the rocket for damage and signs of wear. A damaged device must not be used again. Remove the cover of the container and withdraw the white stoppers in the upper part of the container (1.1). Attention: In no circumstances are you to remove the stoppers from the middle of the cable coil!
- 2a. Replace old rocket. Extract the rocket completely from the rocket shaft of the container and separate from the cord (2.1).
- 2b. Install old rocket.
3. Connect the new rocket with the cord (Bowline) and let them slide into the rocket shaft. The bracket must be guided under the tracks (3.1). Attention: The rocket should only slide into the rocket shaft through its own dead weight. Pay attention to the correct position of the pull jack. The steel cables of the pull jack run into the rocket shaft beneath the rocket and are guided through slots on the floor of the shaft (3.2). Ensure that the knotting of the cord end (Slipstek) does not hinder the rockets when firing. Fix the rocket in the bottom of the rocket shaft, place the white polystyrene plug on top and seal the container with the white top cover.
4. Attach date stickers to the device where the designated place of the product label should be.



Wescom Group is a global leader in survival solutions, recognised for the very best in quality, performance, reliability, and safety. Our vision to enhance human safety is reflected in our wide-ranging capabilities.



WESCOM GROUP

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