

MATERIAL SAFETY DATA SHEET

Refer to Section 16 for List of Acronyms and Abbreviations

SECTION 1: IDENTIFICATION

1.1 Product Name:

PAINS WESSEX SPEEDLINE ROCKET

1.2 Product Code:

50050 Single Rocket

The Pains Wessex Speedline Rocket is a self contained device used for outdoor

1.3 Description:

marine emergency or distress situations.

1.4 Manufacturers Name:

Manufacturer:

Sales:

Pains Wessex Ltd.

PWSS Ltd.

1.5 Address:

High Post, SALISBURY,

Silverpoint, Airport Service Road.

Wiltshire,

PORTSMOUTH,

SP4 6AS,

PO3 5PB,

United Kingdom.

United Kingdom.

1.6 Telephone No:

+44 (0)1722 411611

+44 (0)23 9262 3900

1.7 EMERGENCY 24 HR

SERVICE NO:

+ 44 (0) 1722 411611 (UK/ EU and Rest of the World)

+ 001 703 527 3887 (Shipment to and from USA)

+ 800 424 9300 (Shipment inside USA)

SECTION 2: INFORMATION ON HAZARDOUS INGREDIENTS

This device contains intimate mixtures of the ingredients listed below. These mixtures cannot be converted back to individual ingredients and are sealed inside the product.

INGREDIENT	CAS NO.	MASS PER PRODUCT
Magnesium Metal	07439-95-4	<1 gram
Ammonium Perchlorate	7790-98-9	<130 grams
Ammonium Picrate	131-74-8	<8 grams
Potassium Nitrate	07757-79-1	<2 grams
Boron	7440-42-8	<1 gram
Titanium Dioxide	13463-67-7	<2 grams
Polyisobutylene	9003-27-4	<20 grams
Gunpowder	N/A	<1 grams
SECTION 3: HAZARD IDENTIFICATION		

3.1 General Hazards:

- When fired, a rocket projectile is forcefully ejected from this product.
- Do not point (and fire) product at people or property.
- · Keep out of reach of children.
- Do not fire in confined spaces. Product is designed for outdoor use only.
- In its unfired form, the product presents no hazard.
- Keep product away from extreme heat and sources of ignition.

3.2 Health Hazards:

- If product is damaged, the contents may be harmful to skin, eyes and respiratory tract.
- Smoke produced on ignition may cause irritation to eyes and throat.
- Where this product is used for training purposes and therefore potential exposure increased, every effort must be made to ensure that personnel are upwind of the smoke.
- Medical conditions that may be aggravated by exposure to smoke are respiratory diseases that include Asthma and Emphysema.
- Risk of receiving burns during normal usage is highly unlikely.

3.3 Environmental Hazards:

- Noise and smoke are produced on ignition of this product.
- Products of combustion include salts of potassium and strontium, oxides of magnesium and small traces of carbon dioxide and carbon monoxide.

SECTION 4: FIRST AID MEASURES

In the unlikely event of receiving burns from this product, seek medical attention at once. Exposure to smoke may cause irritation to eyes and throat. Move patient to fresh air. Other measures to be taken as follows:

4.1 Eye Contact: Flush with water for at least 10 minutes. If symptoms persist seek medical advice.

Remove contaminated clothing. Wash exposed areas with soap and water. Do not use 4.2 Skin Contact:

solvents or thinners of any kind.

Remove from further exposure. If symptoms develop such as coughing, wheezing or 4.3 Inhalation:

shortness of breath seek medical attention.

Make patient drink water. Do not induce vomiting. Seek medical attention at once. 4.4 Ingestion:

SECTION 5: FIRE FIGHTING MEASURES

5.1 Flammable Properties: N/A

N/A 5.2 Flash Point LTL (°C):

N/A 5.3 Auto Ignition Temperature:

N/A 5.4 Flammability Limits:

Use copious amounts of water to control the burn. 5.5 Extinguishing Agent:

5.6 Special Fire Fighting

Procedures:

Once product has ignited the store will burn until all composition has been exhausted. Projectile Hazard will be present during and after fire.

For fires in enclosed areas fire fighters must use self-contained 5.7 Fire Fighting Equipment:

breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Safeguards: Keep product away from all sources of ignition.

Collect all damaged and undamaged products and replace in original 6.2 Spillage:

> packaging for disposal. Loose composition should be treated with dry sand. carefully swept up and disposed of according to local authority regulations. The

area should then be washed down with copious quantities of water.

Contact appropriate emergency services. 6.3 Other Precautions:

SECTION 7: HANDLING AND STORAGE

7.1 Handling:

- Avoid removing the end caps that protect the product during general transport and handling. Safety catch must remain on the product until such time as the product needs to be fired.
- Handle with care.
- Do not attempt to dismantle this product.
- Follow printed instructions on this product at all times.

7.2 Storage:

- Store in manufacturers approved packaging in a well ventilated area away from sources of heat or direct sunlight.
- Temperature of storage to be between 5°C and 50°C.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 During Function The product is to be held at arms length (with both hands) away from

body with arrow horizontal. Noise and smoke will be produced at launch.

Do not point at people. Keep out of reach of children.

8.2 Engineering Controls: No specific controls necessary.

8.3 Respiratory Protection: No specific controls necessary.

8.4 Skin Protection: No specific controls necessary.

8.5 Eye Protection: No specific controls necessary.

8.6 Personal Protective Equipment: No specific controls necessary.

8.7 General Hygiene Considerations: Personal hygiene – wash hands after use.

8.8 Exposure Guidelines: No exposure guidelines are available for this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance: The product consists of plastic case and line which the Speedline rocket is attached to.

Product is

9.2 Stability in Water: waterproof.

9.3 Reaction with water:

9.4 Odour:

None

9.5 Boiling Point:

N/A

None

9.6 State:

Solid

9.7 Vapour Pressure:

IV/A

9.8 Vapour Density:

N/A

N/A

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9.9 Evaporation Rate:

N/A

9.10 Melting Point:

N/A

9.11 Solubility in water:

N/A

9.12 Specific Gravity:

N/A

9.13 pH:

N/A

9.14 Colour:

Various

SECTION 10: STABILITY AND REACTIVITY

10.1 Stability:

This product is stable under normal conditions.

10.2 Incompatibility:

Solvents, hydrocarbons, petroleum based products.

10.3 Hazardous Decomposition:

N/A

10.4 Conditions To Avoid:

Avoid extreme heat, keep away from sources of ignition.

10.5 Hazardous Polymerisation:

N/A

SECTION 11: TOXICOLOGICAL INFORMATION

Under normal operating circumstances, there are no known acute toxic hazards resulting from single exposure to the products of combustion from this Speedline rocket. However abuse or misuse of the product could result in situations where exposure to the combustion products could reach harmful levels in susceptible individuals. The following information relates to the individual constituents of the rocket composition and is more relevant to prolonged contact with these materials.

INGREDIENT OSHA / PEL LD50 EH40/2002 Magnesium Metal Not established. None specified None specified. Ammonium Perchlorate Not established. None specified. 4200 mg/kg (oral rat). Potassium Nitrate Not established. None specified. 3750 mg/kg (oral rat). Boron Not established None specified. 650 mg/kg (oral rat) Ammonium Picrate Not established None specified. None specified Titanium Dioxide 8hr TWA (TID) 10mg/m3 15mg/m3 8hr TWA. None specified. Polyisobutylene Nuisance dust 15mg/m3 8hrTWA None specified None specified Gunpowder Nuisance dust 15mg/m3 8hrTWA None Specified None specified

SECTION 12: ECOLOGICAL INFORMATION

There is no information available at the present time relating to ecological effects for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Fired Products:

Subject to local authority arrangements.

13.2 Time Expired Products:

Return to local distributor or local police, fire or coastguard forces as

permitted by local regulations for disposal or recycling.

13.3 Damaged Products:

Contact PWSS Ltd for advice.

SECTION 14: TRANSPORT INFORMATION

14.1 Packing Specification:

PS11-015

Drum

14.1 UN Hazard Code:

1.4G

14.2 UN Number:

0453

14.3 UN Proper Shipping Name:

Rockets, Line throwing

14.4 IMCOL:

N/A

14.5 NATO Stock No:

N/A

14.6 Packing Instruction:

P130

14.7 UN Packaging ID No:

1A2W/Y26/S/**/GB/4328

14.8 Transportation:

Transportation must be carried out in accordance with all statutory regulations

for the carriage of dangerous goods. Forbidden on Passenger Aircraft.

SECTION 15: REGULATORY INFORMATION

15.1 Classification:

Explosive. UN Class 1.

15.2 Hazard Symbol:

Orange Diamond - Explosive, on outer packaging.

15.3 Risk Phrases

N/A.

15.4 Safety Phrases

N/A.

SECTION 16: OTHER INFORMATION

This product is designed to be hand held and for use in emergency situations. Its main application is ship to ship & ship to shore rescue operations. When user instructions are followed, this product presents minimal risk to the user and to those in the general vicinity of the product. This product is for outdoor use only an optional buoyant head may be used when rescuing swimmers in distress.

The information contained in this data sheet meets the requirements of the UK Health and Safety at Work Act 1974 under section 6 and the Control of Substances Hazardous to Health Regulations 1994. It also complies with US Federal OSHA Hazard Communication Standard 29 CFR 1910.1200 and ANSI Z400.1-1998.

List of Acronyms and Abbreviations used within this MSDS.

ANSI American National Standards Institute

CAS Chemical Abstract Service
CFR Code of Federal Regulations

EH40/2002 Annual UK Health and Safety Executive publication containing the list of Maximum

MEL Exposure Limits (MEL's) and Occupational Exposure Limits (OEL's) for use with the

COSHH Control of Substances Hazardous to Health Regulations 1999. Data quoted for 8 Hr

TWA Time Weighted Average.

LD Lethal Dose

LTL Lower Temperature Limit
MSDS Material Safety Data Sheet

N/A Not Applicable

OSHA Occupational Safety and Health Administration (US)

PEL Permissible Exposure Limit

SCBA Self-Contained Breathing Apparatus

SFG Sulphur Free Gunpowder

UN United Nations
TID Total Inhalable Dust
RD Respirable Dust

PWSS Ltd Pains Wessex Safety Systems Limited

The above information is given based on the present state of our knowledge of this product and is, to the best of our knowledge and belief, accurate at the time of publication. No warranty given, either express or implied, with respect to the accuracy, reliability or completeness of the information contained herein and we will assume no liability resulting from its use. The user must satisfy themselves that the information provided is entirely suitable for their particular use.