



# MATERIAL SAFETY DATA SHEET

## Conforming 91/155/EWG

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### 1.) Product and Company Identification:

#### Product Identification:

Comet Light and Smoke Signal  
PW Manoverboard MK8 Light and Smoke Signal

Art.-No.: 9161600  
Part No.: 53775

#### Use of Product:

Sea distress signal

#### Manufacturer's name:

Drew Marine Signal & Safety Germany GmbH  
Vieländer Weg 147  
27574 Bremerhaven  
Germany

#### Supplied By:

Drew Marine Signal & Safety UK Ltd  
Langstone Technology Park,  
Langstone Road, Havant, Hampshire  
PO9 1SA U.K.

#### Emergency Contact: 24 hours:

Phone: ++49 (0) 178 433 7434

Tel: ++44 (0) 2392 415700

E: [Info@signalandsafety.com](mailto:Info@signalandsafety.com)  
[www.signalandsafety.com](http://www.signalandsafety.com)

### 2.) Composition / Information on Ingredients:

➤ Chemical Characterization:	Oxidation and combustible mixture			
➤ Description:	Pressed, pyrotechnical powder			
➤ Hazardous Ingredients:	<u>EC-No.:</u>	<u>CAS-No.:</u>	<u>R-Sentences:</u>	<u>Content:</u>
Ignition Composition:				
- Barium Nitrate	233-020-5	10022-31-8	20, 22	60-100%
- Blackpowder	231-818-8	7757-79-1	2	1-5%
Smoke Composition:				
- Potassium Chlorate	017-004-00-3	3811-04-9	9, 22	10-30%
- Potassium Perchlorate	231-912-9	7778-74-7	9, 22	1-5%
- Diatomaceous Earth	272-489-0	68855-54-9	20., 40	1-5%

### 3.) Hazard Identification:

- Hazard: flammable
- Special hazards for Health & Environment:  
Burn hazard if not used conforming manual instructions
- Classification System: not applicable

Printing date:  
16.11.2012



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#### **4.) First Aid Measures:**

- Inhalation: having problems after inhaling smoke, consult a Physician
  
- Skin contact: flush with water
- Eye contact: flush with water, consult a physician
- Swallowing: having problems after swallowing smoke, consult a physician

#### **5.) Fire Fighting Measures:**

- Extinguishing Media: once the signal is ignited, it cannot be extinguished-  
for secondary fires = water
- Special protection gear: none

#### **6.) Accidental Release Measures:**

- Personal Safety Measures: use signal only in emergency cases
- Environmental Measures: not applicable
- Cleaning instructions: not applicable

#### **7.) Handling and Storage:**

- Handling: Conforming instructions printed on the signal
- Indications concerning fire and explosion protection: not applicable
- Storage: Store in cool and dry environment, avoid heat
- Warehouse and packaging requirements:  
Store only in original packing and conform with the directions for storing dangerous goods
- Common storage with other goods:  
Store only together with non-dangerous goods, or goods of the same dangerous goods classification.
- VbF classification: not applicable

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### 8.) Exposure Controls & Personal Protection:

- |                                                              |                |
|--------------------------------------------------------------|----------------|
| ➤ Additional information concerning technical installations: | not applicable |
| ➤ Exposure limits:                                           | not applicable |
| ➤ Limiting and surveillance of exposure:                     | not applicable |
| ➤ Personal protection equipment                              | not applicable |
| ➤ Respiratory protection:                                    | not applicable |
| ➤ Hand protection:                                           | not applicable |
| ➤ Eye protection:                                            | not applicable |
| ➤ Body protection:                                           | not applicable |

### 9.) Physical & Chemical Properties:

- |                                      |                                                                 |
|--------------------------------------|-----------------------------------------------------------------|
| ➤ Form:                              | Metal casing with pressed explosives                            |
| ➤ Colour:                            | Outer casing: orange<br>Pyrotechnical ingredients: black / grey |
| ➤ Odor:                              | neutral                                                         |
| ➤ pH-value:                          | not applicable                                                  |
| ➤ Change in state:                   | not applicable                                                  |
| ➤ Melting point/ area:               | not applicable                                                  |
| ➤ Boiling point/ area:               | not applicable                                                  |
| ➤ Flashpoint:                        | 160° C / 320° F                                                 |
| ➤ Self Inflammability:               | not applicable                                                  |
| ➤ Explosion risk:                    | not applicable                                                  |
| ➤ Density:                           | not applicable                                                  |
| ➤ Solubility / Miscibility in Water: | indissoluble                                                    |

### 10.) Stability & Reactivity Data:

- |                                                       |                |
|-------------------------------------------------------|----------------|
| ➤ Auto-ignition / Conditions to avoid:                |                |
| 1) Temperatures >71°C (160°F)                         |                |
| 2) Strong mechanical impact, e.g. pushing or throwing |                |
| ➤ Hazardous Reactions:                                | not applicable |
| ➤ Hazardous Corrosion Products:                       | not applicable |

### 11.) Toxicological Data:

(for products arising during intended reaction)

- |                                        |      |
|----------------------------------------|------|
| ➤ Acute Toxicity:                      | none |
| ➤ Primary Irritation:                  | none |
| ➤ Sensitisation:                       | none |
| ➤ Additional toxicological Indications | none |

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#### **12.) Ecological Data:**

- General Indications: none

#### **13.) Disposal Considerations:**

- Disposal via specialised trade

#### **14.) Transport Information:**

- Dangerous Goods Classification: 1.4S UN 0507 Signals, Smoke

#### **15.) Regulatory Information:**

- Labelling EWG Restrictions: not applicable.
- National Restrictions: not applicable
- Classification VbF: not applicable
- Water Pollution Class: not applicable

#### **16.) Other Information:**

- Flammable
- R-Sentences:
  - # 2 = Explosive, due to heavy impact, friction or open fire
  - # 9 = Explosive, when mixed with combustible materials
  - # 20 = Harmful to health when inhaled
  - # 22 = Harmful to health when swallowed
  - # 40 = Harmful to health

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