



# MATERIAL SAFETY DATA SHEET

Page 1 of 4

Conforming 91/155/EWG

Issue 6 10/2012

## 1.) Product and Company Identification:

### Product Identification:

Comet White Handflare Art.-No.: 9162500  
 Pains Wessex White Handflare MK8 Item No. 52751

### Use of Product:

Sea distress signal. For Collision warning and Illumination

### Manufacturer's name:

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

### Emergency Contact: 24 Hours

Phone: +49 (0)178 433 7435

### Supplied By:-

Drew Marine Signal & Safety UK Ltd  
 Langstone Technology Park  
 Langstone Road, Havant, Hampshire  
 PO9 1SA U.K.  
 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:	EC-No.:	CAS-No.:	R-Sentences: Content:	
Lighter composition:				
- Potassium Nitrate	231-818-8	7757-79-1	none	10-30%
- Potassium Perchlorate	231-912-9	7778-74-7	9, 22	10-30%
- Magnesium	012-002-00-9	7939-95-4	11, 15	30-60%
- PVC		9002-86-2	none	10-30%
- Strontium Nitrate	233-131-9	10042-76-9	8, 36, 37, 38	<1%
- Barium Nitrate	233-020-5	10022-31-8	20, 22	1-5%
Delay composition:				
- Blackpowder	231-818-8	7757-79-1	2	10-30%
- Potassium Nitrate	231-818-8	7757-79-1	none	60-100%
- Sulfur	231-722-6	7704-34-9	none	5-10%
- Potassium Perchlorate	231-912-9	7778-74-7	9, 22	1-5%
Ignition Composition:				
- Potassium Perchlorate	231-912-9	7778-74-7	9, 22	5-10%
- Blackpowder	231-818-8	7757-79-1	2	30-60%
- Strontium Nitrate	233-131-9	10042-76-9	8, 36, 37, 38	10-30%
- Aluminium / Magnesium alloy	231-072-3	7429-90-5	10, 15	10-30%

[www.comet-marine.com](http://www.comet-marine.com)[www.painswessex.com](http://www.painswessex.com)[www.aurora-marine.com](http://www.aurora-marine.com)



# MATERIAL SAFETY DATA SHEET

Page 2 of 4

Conforming 91/155/EWG

Issue 6 10/2012

## **3.) Hazard Identification:**

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

## **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: Conform with 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





# MATERIAL SAFETY DATA SHEET

Page 3 of 4

Conforming 91/155/EWG

Issue 6 10/2012

## 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:                              | Steel tube with pressed explosives, ignitor and gripp                     |
| ➤ Colour:                            | Outer casing: Orange or Yellow<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:

- |                                                       |                                             |
|-------------------------------------------------------|---------------------------------------------|
| ➤ Autoignition / Conditions to avoid:                 |                                             |
| 1) Temperatures >160 °C (320 °F)                      |                                             |
| 2) Strong mechanical impact, e.g. pushing or throwing |                                             |
| ➤ Hazardous Reactions:                                | During intended use: flames, heat and smoke |
| ➤ Hazardous Corrosion Products:                       | not applicable                              |

## 11.) Toxicological Data:

(for products arising during intended reaction)

- |                                        |                                                         |
|----------------------------------------|---------------------------------------------------------|
| ➤ Acute Toxicity:                      | Inhalation of flue gases (fine dust of magnesium oxide) |
| ➤ Primary Irritation:                  | none                                                    |
| ➤ Sensitisation:                       | none                                                    |
| ➤ Additional toxicological Indications | none                                                    |





# MATERIAL SAFETY DATA SHEET

Page 4 of 4

Conforming 91/155/EWG

Issue 6 10/2012

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

- General Indications: none

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

- Disposal via specialised trade

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

- Dangerous Goods Classification: 1.4G UN 0191 Signal Devices, Hand  
Except USA - 1.4G UN 0505 Signals,  
Distress, Ship

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

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

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

- R-Sentences:
  - # 2 = Explosive, due to heavy impact, friction or open fire
  - # 8 = Inflammable, when in contact with other combustible materials
  - # 9 = Explosive if mixed with flammable materials
  - # 10 = Flammable
  - # 11 = Highly inflammable
  - # 15 = Highly inflammable gases occur, when reacting with water
  - # 20 = Harmful to health when inhaled
  - # 22 = Harmful to health when swallowed
  - # 36 = Irritating for eyes
  - # 37 = Irritating for respiratory organ
  - # 38 = Irritating for skin

