



# MATERIAL SAFETY DATA SHEET

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Issue 4 10/2012

## 1.) Product and Company Identification:

### Product Identification:

Comet Orange Handsmoke  
PW Orange Handsmoke MK8A

Art.-No.: 9132600  
Item No.: 53930

### 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. UK.

### Emergency Contact: 24 hours:

Phone: +49 (0) 178 433 7434

Tel: +44 (0) 2392 415700

E: info@signalandsafety.com  
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:
Ignition Composition:				
- Barium Nitrate	233-020-5	10022-31-8	20, 22	60-100%
- Blackpowder	231-818-8	7757-79-1	2	1-5%
- Sulphur	231-722-6	7704-34-9	none	5-10%
Smoke Composition:				
- Potassium Chlorate	017-004-00-3	3811-04-9	9, 22	10-30%
- Dihydroxy-Anthrachinon				30-60%
- Milk Sugar				10-30%

## 3.) Hazard Identification:

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





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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: Only store together with non-dangerous goods, or with goods of the same dangerous goods classification.
- VbF classification: not applicable

### **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





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### **9.) Physical & Chemical Properties:**

➤ Form:	Plastic casing with pressed explosives
➤ Colour:	Outer casing: orange 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

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

➤ General Indications:	none
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### **13.) Disposal Considerations:**

- Disposal via specialised trade

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

➤ Dangerous Goods Classification:	1.4G UN0197 Signals, Smoke
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### **15.) Regulatory Information:**

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|-------------------------------|-----------------|
| ➤ 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

