



MATERIAL SAFETY DATA SHEET

Page 1 of 4

Conforming 91/155/EWG

Issue 4 11/2012



1.) Product and Company Identification:

Product Identification – 2 Brands:

Comet Day and Night Signal Art.-No.: 9131500
Pains Wessex Day & Night MK8 Item No. 55970

Use of Product:

Sea distress signal – Produces Orange Smoke and Red Flare

Manufacturer's Name:-

Drew Marine Signal & Safety Germany GmbH

Vieländer Weg 147
27574 Bremerhaven
Germany

Emergency Contact: 24 Hours

Phone: ++49 (0)178 433 7434

Supplied By :-

Drew Marine Signal & Safety UK Ltd
Langstone Technology Park
Langstone Road, Havant,
Hampshire. PO9 1SA. U.K.
Tel: +44(0) 2392 415705
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:
<u>Flare:</u>				
Lighter composition:				
- Magnesium	012-002-00-9	7939-95-4	11, 15	30-60%
- Strontium Nitrate	233-131-9	10042-76-9	8, 36-38	30-60%
Delay composition:				
- Blackpowder	231-818-8	7757-79-1	2	10-30%
- Potassium Nitrate	231-818-8	7757-79-1	none	30-60%
- Potassium Perchlorate	231-912-9	7778-74-7	9, 22	1-5%
Ignition Composition:				
- Blackpowder	231-818-8	7757-79-1	2	60-100%
- Strontium Nitrate	233-131-9	10042-76-9	8, 36-38	10-30%
- Aluminium / Magnesium Alloy	231-072-3	7429-90-5	10, 15	5-10%



www.comet-marine.com



www.painswessex.com



www.aurora-marine.com



MATERIAL SAFETY DATA SHEET

Page 2 of 4

Conforming 91/155/EWG

Issue 4 11/2012

Smoke:

Ignition Composition:

- Blackpowder	231-818-8	7757-79-1	2	10-30%
- Barium Nitrate	233-020-5	10022-31-8	20, 22	60-100%
- Sulphur	231-722-6	7704-34-9	none	5-10%

Smoke Composition:

- Dihydroxy-Anthrachinon			none	30-60%
- Milk Sugar			none	10-30%
- Potassium Chlorate	017-004-00-3	3811-04-9	9, 22	10-30%

3.) Hazard Identification:

- Hazard: flammable
- Special hazards for Health & Environment: Burn hazard if not used conforming 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 conforming with the directions for storing dangerous goods





MATERIAL SAFETY DATA SHEET

Page 3 of 4

Conforming 91/155/EWG

Issue 4 11/2012

- Common storage with other goods:
Only store together with non-dangerous goods, or 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

9.) Physical & Chemical Properties:

- Form: Steel tube with pressed explosives, ignitor and gripp
- 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 >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



www.comet-marine.com



www.painswessex.com



www.aurora-marine.com



MATERIAL SAFETY DATA SHEET

Page 4 of 4

Conforming 91/155/EWG

Issue 4 11/2012

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

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
 - # 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

