



MATERIAL SAFETY DATA SHEET

Conforming 91/155/EWG

Issue 7 12/2013

1.) Product and Company Identification:

Product Identification:

Comet line-throwing device, 250m Art.-No.: 9160400

Use of Product:

Sea distress signal

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

Marketed by:

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

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:	<u>EC-No.:</u>	<u>CAS-No.:</u>	<u>R-Sentences:</u>	<u>Content:</u>
Ignition Composition:				
- Potassium Nitrate	231-818-8	7757-79-1		60-100%
Rocket Propellant:				
- Nitrocellulose	603-037-01-3	9004-70-0	11	30-60%
- Nitroglycerine		55-63-0	3, 26-28, 33	30-60%

3.) Hazard Identification:

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



www.comet-marine.com



www.painswessex.com



www.aurora-marine.com



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4.) First Aid Measures:

- Inhalation: having problems after inhaling gas, consult a physician
- Skin contact: flush with water
- Eye contact: flush with water, consult a physician
- Swallowing: having problems after swallowing gas, 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: Storage only in original packing and conforming 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

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:

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|--------------------------------------|--|
| ➤ Form: | Steel tube with pressed explosives |
| ➤ Colour: | Outer casing: Plastic, 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: | 170 °C / 338 ° 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 |
|------------------------|------|

13.) Disposal Considerations:

- | | |
|----------------------------------|--|
| ➤ Disposal via specialised trade | |
|----------------------------------|--|

14.) Transport Information:

- | | |
|-----------------------------------|------------------------------------|
| ➤ Dangerous Goods Classification: | 1.4G UN0431 Articles, Pyrotechnic. |
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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:

- R-Sentences:
 - # 3 = Very explosive, due to heavy impact, friction or open fire
 - # 26 = Very poisonous when inhaled
 - # 27 = Very poisonous when skin contact
 - # 28 = Very poisonous when swallowed
 - # 33 = Hazard of cumulative reactions

