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: EC-No.: CAS-No.: R-Sentences: Content:
  - 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
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—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
9.) Physical & Chemical Properties:
- 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.
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:
  # 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