MATERIAL SAFETY DATA SHEET

Conforming 91/155/EWG

Issue 6 10/2012

1.) Product and Company Identification:

Product Identification:
2 brands -
Comet Parachute Rocket, White Art.-No.: 9123700
Pains Wessex Parachute Illuminating Rocket MK8 Item No 50755

Use of Product:
Signal for Illuminating areas at sea

Manufacturer’s name: Supplied By:-
Drew Marine Signal & Safety Germany GmbH Drew Marine Signal & Safety UK Ltd
Vieländer Weg 147 Langstone Technology Park,
27574 Bremerhaven Langstone Road, Havant,
Germany Hampshire, PO9 1SA, UK.

Tel: +44(0) 2392 415700
E: info@signalandsafety.com
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Emergency Contact: 24 hours:
Phone: +49 (0)178 433 7434

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:
    - Magnesium 012-002-00-9 7939-95-4 11, 15 30-60%
    - Natrium Nitrate 231-554-3 7631-99-4 8, 22, 36 30-60%
  Delay composition:
    - Blackpowder 231-818-8 7757-79-1 2 60-100%
    - Colophonium 8050-09-7 43 1-5%
    - Aluminium 231-072-3 7429-90-5 10, 15 10-30%
  Ignition Composition:
    - Blackpowder 231-818-8 7757-79-1 2 30-60%
    - Potassium Perchlorate 231-912-9 7778-74-7 9, 22 5-10%
    - Strontium Nitrate 233-131-9 10042-76-9 8, 36, 37, 38 10-30%
    - Aluminium / Magnesium 231-072-3 7429-90-5 2 10-30%
  Rocket Propellant:
    - Blackpowder 231-818-8 7757-79-1 2 60-100%
    - Potassium Perchlorate 231-912-9 7778-74-7 9, 22 10-30%
    - Barium Chromate 233-660-5 7778-74-7 9, 22 10-30%
    - Aluminium 231-072-3 7429-90-5 10, 15 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: 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 conforming 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
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: Aluminium tube with pressed explosives, parachute and ignitor
- 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: 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
12.) Ecological Data:
   - General Indications: none

13.) Disposal Considerations:
   - Disposal via specialised trade

14.) Transport Information:
   - Dangerous Goods Classification: 1.4G, UN0505 Signals, Distress, Ship (when packed in approved steel tin)

15.) Regulatory Information:
   - Labeling 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, when mixed with combustible materials
     # 10 = Inflammable
     # 11 = Highly inflammable
     # 15 = Highly inflammable gases occure, when reacting with water
     # 20 = Harmfull to health when inhaled
     # 22 = Harmful to health when swallowed
     # 36 = Irritating for eyes
     # 37 = Irritating for respiratory organ
     # 38 = Irritating for skin
     # 43 = Allergisation via skin contact possible