

SAFETY DATA SHEET– SDS

1. Identification of the product and company

Product: LINE THROWING CARTRIDGE JHT-4 SOLAS/MED
 Manufacturer: Jiangsu Huahai Marine Signals Manufacturing Co., Ltd.
 Importer/Distributor: Eurosul – Fornecedora de Navios Ltda
 Address: Rua Jaguaraiá, 596 – Sala 01 – Alphaville Graciosa – Pinhais – PR –
 ZIP Code: 83327-076 – Brazil
 Emergency telephone number: +55 (41) 3668-1319
 Recommended use: Pyrotechnic cartridge for marine rescue line throwing equipment

2. Hazard identification

Chemical product classification:
 Explosive – Division 1.4G
 H Statements:
 H204 – Fire or projection hazard
 P Statements:
 P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources
 P250 – Do not subject to impact or friction
 P370+P380 – In case of fire: Evacuate area
 P372 – Explosion risk in case of fire
 P401 – Store in accordance with applicable regulations for explosive materials
 Pictograms: GHS01



Signal word: Danger

3. Composition and information on ingredients

Cartridge containing proprietary pyrotechnic composition, solid propellant and oxidizing components used in marine line throwing systems.

4. First aid measures

Inhalation: Remove victim to fresh air and seek medical attention if symptoms occur
 Skin contact: Wash with soap and water
 Eye contact: Rinse immediately with plenty of running water
 Ingestion: Do not
3. Composition and information on ingredients
 Sealed pyrotechnic composition inside the device.

Component	CAS	Approximate quantity
Potassium Perchlorate	7778-74-7	100 g
Phenol-Formaldehyde Resin	9003-35-4	22 g
Pyrotechnic composition	N/A	3 g

4. First aid measures

Inhalation: Remove victim to fresh air and seek medical attention if symptoms occur
 Skin contact: Wash with soap and water
 Eye contact: Rinse immediately with plenty of running water
 Ingestion: Do not induce vomiting and seek immediate medical attention
 Burns: Cool affected area with clean water and seek medical assistance

5. Firefighting measures

Extinguishing media: Use large amounts of water to cool the area
 Specific hazards: Explosive product with projection hazard during fire
 Protection for firefighters: Wear full protective equipment and self-contained breathing apparatus
 Special procedures: Immediately evacuate the area in case of fire involving the product

6. Accidental release measures

Isolate the area and remove ignition sources
 Collect damaged products and place in suitable packaging
 Use non-sparking tools
 Wash the area with large amounts of water after collection

7. Handling and storage

Handle carefully avoiding impact and heat
 Do not dismantle the device
 Store in a dry, ventilated place protected from direct sunlight
 Keep away from ignition sources

8. Exposure controls and personal protection

Respiratory protection: Use respiratory protection in case of smoke or decomposition
 Hand protection: Protective gloves
 Eye protection: Safety goggles
 Body protection: Suitable clothing for handling explosive articles

9. Physical and chemical properties

Physical state: Solid packed in plastic casing
 Color: Variable
 Odor: Characteristic
 Flammability: Explosive pyrotechnic product
 Solubility: Insoluble in water
 Water stability: Waterproof product

10. Stability and reactivity

Stable under normal storage conditions
 Avoid excessive heat and ignition sources
 Incompatible with solvents, hydrocarbons and petroleum derivatives

11. Toxicological information

Exposure to fumes may cause eye and respiratory irritation
 Direct contact with internal content may cause skin irritation
 No significant acute toxic effects are known under normal conditions of use

12. Ecological information

Combustion may release metallic oxides and inorganic salts
 Avoid improper disposal into the environment
 Do not allow contamination of soil and water bodies

13. Disposal considerations

Dispose according to regulations applicable to explosive articles
 Expired or damaged products must be returned to the manufacturer, distributor or competent authority
 Classification according to ABNT NBR 10004: Hazardous waste

14. Transport information

Proper shipping name: DISTRESS SIGNALS
 UN Number: UN0505
 Hazard class or division: 1.4G
 Description of hazard class or division: Explosives
 Packing group: Not applicable
 Applicable regulations: ANTT, IMDG Code, IATA DGR, SOLAS

15. Regulatory information

ABNT NBR 14725:2023, ABNT NBR 7500, ABNT NBR 7503, ABNT NBR 10004, ANTT Resolution 5998/2022, IMDG Code, IATA DGR, SOLAS 74, MSC.48(66), MSC.81(70), MED Directive 2014/90/EU

16. Other information

Revision date: 05/19/2026
 Document prepared based on technical documentation and SDS provided by Jiangsu Huahai Marine Signals Manufacturing Co., Ltd.
 It is the user's responsibility to ensure proper use and disposal in accordance with applicable environmental regulations
 Emergency sheet: Yes