

# SAFETY DATA SHEET– SDS

## 1. Product and Company Identification

Product: RED HAND FLARE SIGNAL 1MIN 15000 CD HGY60-15000 SOLAS/MED EUROSUL

Manufacturer: Ningbo Zhenhua Global Import & Export 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: Manual pyrotechnic distress signal for maritime day and night emergency signaling emitting intense red light for approximately 60 seconds.

## 2. Hazard Identification

Classification: Explosive – Division 1.4G

Manual pyrotechnic article intended for maritime emergency signaling. The main hazards are associated with storage, transportation and activation of the device.

Hazard statements:

H204 – Fire or projection hazard

Precautionary statements:

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P250 – Do not subject to grinding, shock, friction or impact.

P280 – Wear protective gloves, eye protection and face protection.

P370+P380 – In case of fire: Evacuate area.

P372 – Explosion risk in case of fire.

P373 – DO NOT fight fire when fire reaches explosives.

P401 – Store in accordance with local regulations for explosives.

P501 – Dispose of contents/container in accordance with local regulations.

Pictogram: GHS01



Signal word: Warning

## 3. Composition and Information on Ingredients

Composition	CAS	%
Strontium nitrate	10042-76-9	Not declared by manufacturer
Magnesium	7439-95-4	Not declared by manufacturer
Castor oil	8001-79-4	Not declared by manufacturer
PVC	9002-86-2	Not declared by manufacturer
Potassium nitrate	7757-79-1	Not declared by manufacturer
Potassium perchlorate	7778-74-7	Not declared by manufacturer
Phenolic resin	Not available	Not declared by manufacturer

## 4. First Aid Measures

Inhalation: Remove victim to fresh air. Seek medical attention if respiratory symptoms occur.

Skin contact: Remove contaminated clothing and wash affected areas with soap and water.

Eye contact: Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

## 5. Firefighting Measures

DANGER: Explosive/pyrotechnic product.

Activated product will continue burning until total consumption of the composition.

Evacuate the area immediately.

Use water spray/fog to cool surrounding areas whenever possible.

DO NOT fight the fire when fire reaches explosives.

Product may project incandescent particles and burning materials during ignition.

## 6. Accidental Release Measures

CAUTION: EXPLOSIVE/PYROTECHNIC ARTICLE.

Isolate and signal the area.

Eliminate all ignition sources.

Do not smoke or generate sparks.

Collect residues manually using appropriate PPE.

Do not use metallic tools.

Place residues in a safe fire-resistant container for proper disposal.

## 7. Handling and Storage

Handle carefully avoiding friction, impact and heating.

Do not disassemble the product.

Store in a dry, cool and well-ventilated area protected from direct sunlight and ignition sources.

Avoid excessive stacking.

Keep in original packaging according to applicable explosive regulations.

## 8. Exposure Controls and Personal Protection

Respiratory protection: Particle mask in confined environments or areas with intense smoke.

Hand protection: Heat-resistant gloves.

Eye protection: Safety goggles and face shield.

Body protection: Protective clothing against heat and burns.

Environment: Ensure adequate natural or mechanical ventilation.

## 9. Physical and Chemical Properties

Physical state: Solid contained in metallic tubular body

Color: Red

Odor: Odorless under normal conditions

Flammability: Flammable

Burning time: Approximately 60 seconds

Emission: Intense red light and smoke

Approximate weight: 160 g

Luminous intensity: 15,000 candelas

## 10. Stability and Reactivity

Stable under normal storage and handling conditions.

May ignite when exposed to heat, flame, impact, friction or ignition sources.

Incompatible with strong oxidizing agents and excessive moisture.

Combustion may release intense smoke, heat and incandescent particles.

## 11. Toxicological Information

Smoke produced during combustion may cause eye and respiratory irritation.

Direct contact with internal contents may cause chemical irritation and thermal burns.

Exposed persons may experience coughing, throat irritation and respiratory discomfort.

## 12. Ecological Information

Combustion residues may release metals, oxidizing salts and potentially polluting compounds into soil, water, flora and fauna.

Avoid disposal into water bodies and drainage systems.

## 13. Disposal Considerations

Used, expired or damaged products must be disposed of by specialized hazardous waste and pyrotechnic material companies.

Do not reuse or disassemble the product.

Waste classification according to ABNT NBR 10004: Class I – Hazardous Waste.

## 14. Transport Information

UN Number: UN0191

Proper shipping name: DISTRESS SIGNALS

Hazard class or division: 1.4G

**Hazard description: Explosives**

Packing group: Not applicable

Applicable regulations: ANTT; IMDG Code; IATA DGR; SOLAS

**15. Regulatory Information**

ABNT NBR 14725:2023; ABNT NBR 10004; ANTT Resolution No. 5998/2022;  
IMDG Code; IATA DGR; SOLAS; INMETRO Ordinance No. 366/2013

**16. Other Information**

**Revision date: 26/05/2026**

Document prepared based on SDS, emergency sheet and technical manual provided by the manufacturer/importer.

It is the user's responsibility to use and dispose of the product correctly in accordance with current environmental legislation.

Emergency response sheet required: Yes