



## EUROSUL Fornecedor de Navios Ltda

CNPJ 03.178.524/0001-65 - Insc. 90186639-26  
Rua Iapó, 180 - Alphaville Graciosa - Pinhais - Brasil  
Fone: +55 41 3668-1319 Celular: +55 41 99191-3037  
VENDAS@ eurosul.com - www.eurosul.com



### Material Safety Data Sheet

MSDS Number: 07/2019

Revision Date: 7/1st/2019

#### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Red Handflare Signal  
Pains wessex, Comet, Eurosul

Importer: EUROSUL - Fornecedor de Navios Ltda  
Rua Iapó, 180 - Alphaville - Pinhais Pr  
Zip Code 83.327-075

Emergency telephone number: 55 41 3668-1319

#### SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient - Pains / Comet	CAS	Qty
Magnesium	07439-95-4	40gr
Strontium nitrate	10042-76-9	40gr
Ellisprene	09006-03-5	03gr
Potassium nitrate	07757-79-1	01gr
Potassium perchlorate	07778-74-7	10gr
Polyvinylchloride	9002-96-2	10gr
Linseed oil	08001-26-1	02gr
Di-butyl phthalate	00084-74-2	04gr
Gunpowder	n / a	01gr

Ingredient - Eurosul	CAS	Qty
Magnesium Metal	07439-95-4	<39gr
Phenolic resin	Not applicable	<03gr
Estrone Nitrate	10042-76-9	<16gr
Potassium perchlorate	07778-74-7	<20gr
Polyvinylchloride	09002-86-2	<03gr
Beaver Oil	08001-79-4	<04gr

#### SECTION 3 - HAZARDS IDENTIFICATION

*Flammable dangerous product that does not follow the instructions of the manual is aggressive to health and the environment.*

#### SECTION 4 - FIRST-AID DATA

*Inhalation: Get medical advice / attention if you experience difficulty in inhaling smoke. Skin contact: Wash with water.  
Eye contact: Flush with water and consult a physician.  
Ingestion: If you experience problems with the intake of smoke, consult a doctor.*

#### SECTION 5 - FIRE FIGHTING MEASURES

*Extinguishing media: as the signal is ignited, it can not be extinguished, for secondary fires = water, special protective equipment: none - produces light and intense heat and may cause intoxication when breathing smoke.*

#### SECTION 6 - LEAKAGE CONTROL MEASURES

*Personal care: Use the signal only in case of emergency.  
Environmental precautions: Not applicable.  
Methods for cleaning up: Not applicable.*

#### SECTION 7 - STORAGE AND HANDLING

*Handling: As instructed on the product.  
Advice on protection against fire and explosion: Not applicable.  
Storage: Store in a cool, dry place away from sources of ignition.  
Place and pack: Store only in its original packaging and in accordance with hazardous loading regulations.  
VbF Rating: Not applicable.*

#### SECTION 8 - INDIVIDUAL PROTECTION CONTROL

The following topics are not applicable: Additional information on technical installations, exposure limits, exposure limitation and monitoring, protective equipment, respiratory protection, hand, eyes and body protection.

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

The following topics are not applicable: pH value, change in physical state, melting point and boiling point, auto flammability, exposure risk, density.

Shape: steel tube with explosive tablets, igniter and wrist.

Packing Color: Comet = orange, Wessex Pains and Eurosul = yellow and red.

Pyrotechnic ingredients: black / gray.

Odor: neutral Flash point: 160 ° C

#### SECTION 10 - STABILITY AND REACTIVITY

Auto-ignition / Conditions to avoid: Temperatures > 160 ° C and strong mechanical impacts, pulling and / or pushing.

Dangerous reactions: During intense use: flames, heat and smoke.

Hazardous corrosive products: Not applicable.

#### SECTION 11 - TOXICOLOGICAL INFORMATION

(Products resulting from the chemical reaction when it is activated)

Acute toxicity: Inhalation of combustion gases (thin wand of magnesium oxide)

No toxicity to: primary irritation, sensitivity and indication of additional toxicity.

#### SECTION 12 - ECOLOGICAL INFORMATION

No general indication.

#### SECTION 13 - TREATMENT AND SEIZURE

The product should be discarded by a specialist company.

#### SECTION 14 - TRANSPORT INFORMATION

Classification as dangerous goods: Pains Wessex, Comet and Eurosul 1.4G1 UN0191 Manual flag.

#### SECTION 15 - REGULATORY INFORMATION

Not applicable, EWG label restrictions, national restrictions, VbF classification and classification of water pollution.

#### SECTION 16 - OTHER INFORMATION

R-sentences:  
2 = explosive due to strong impact, friction or flame opening.  
8 = flammable when in contact with another combustible product.  
11 = High flammability 15 = High flammability occurs when reacted with water. 20 = harmful to health when inhaled  
22 = harmful to health when ingested. 36 = irritant to eyes.  
37 = irritant to respiratory organs, 38 = irritant to skin.