

# Safety Data Sheet based on Regulation (EC) No.1907/2006

Product Name: Light-Smoke Signal

Revised:



## 1. Product and Company Information

### Type of Product:

Comet Light and Smoke Signal, Art.-No. 9181600

Pains Wessex Manoverboard MK9, Art.-No. 9537800

### Area of Usage:

Sea distress signal

### Manufacturer's Name and Address:

Drew Marine Signal and Safety Germany GmbH

Vieländer Weg 147

D-27574 Bremerhaven/Germany

### Contact Point for Technical Information:

Telephone Number during office hours: +49 (0)471 393-0, FAX:-210, E-Mail:[info@signalandsafety.com](mailto:info@signalandsafety.com)

Responsible for the Data Sheet: [info@signalandsafety.com](mailto:info@signalandsafety.com)

Accident Information 24 h: Tel. +049-(0)178-433-7434 (Consultant Lutz Harder GmbH)

## 2. Hazard Information

**Classification:** Explosive  
1.4

Danger Symbol:



Key Word:

Warning

### Danger Advice Documents:

H204 Risk by fire or splinter, explosive pieces

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240 Earth the container and the device in which it is used.

P250 Do not scratch, bash or rub device.

P280 Wearing of protective gloves, clothes, glasses and face mask.

P370 + P380 During Fire, evacuate immediate area

P372 Danger of explosion during fire.

P374 Fire fighting under normal precautions from a reasonable distance.

P401 Store according to the following conditions: dry and not over 75°C.

P501 Product is to be handled as hazardous waste.

### Additional Dangers for People and the Environment

Hazard description: Flammable

Additional Advice: Burn hazard if not used conforming manual instructions.

During firing do not inhale smoke

## 3. Component Information

Chemical Characteristics:

Oxidiser and Fuel Mix.

Description:

Pressed pyrotechnical powder.

Dangerous Contents:

Name	CAS-No.	EG-No.	EG-Index-No.	H- Sets / Content
Potassium Chlorate	3811-04-9	223-289-7	017-004-00-3	271, 302, 332, 411
Black Powder	7757-79-1			272
Barium Nitrate	10022-31-8	233-020-5	056-002-00-7	272, 332, 302, 319
Lithium Battery:	n.A.	n.A.	n.A.	n.A.

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## **4. First Aid Measures**

General Advice:	Not defined
After Inhalation (Combustion Gases):	Having problems after inhaling smoke, consult a physician.
After Skin Contact:	Wash with lots of water
After Contact with Eyes:	Wash with lots of water, contact a physician
After Swallowing:	Not possible to swallow product
After swallowing contents:	Having problems after swallowing smoke, consult a physician.
Advice for doctors:	
<i>Symptoms:</i>	Not defined
<i>Dangers:</i>	Not defined
<i>Actions to be taken:</i>	Not defined

## **5. Fire Fighting Measures**

Suitable Extinguishing Method:	Once signal is ignited, it cannot be extinguished. Extinguishing device should be chosen according to the surrounding environment.
Inappropriate Extinguishers:	No data available.
Particular dangers due to the use of the product, the products of its combustion or gases:	None.
Specific protective equipment:	The usual protective gear in case of fire.
Additional Advice:	
<i>Fire Class:</i>	None.
<i>Temperature Class:</i>	Do not expose to temperatures higher than 71°C / 160°F.

## **6. Accident Prevention Measures**

Personnel related safety issues:	Use signal only in emergency cases.
Environmental protection Issues:	Not applicable.
Methods for cleaning:	Not applicable.

## **7. Handling and Storage Issues**

### **Handling**

Advice on Safe Handling:	Conforming instructions printed on the signal. Protect from exposure to impacts, friction, heat, fire, sparks, electrostatic charges and other ignition sources. Do not use damaged product, avoid heat sources.
Explosion and Fire Protection Advice:	Only use product for its official intended purpose.
Additional Advice:	None.

### **Storage**

Requirements of Storage Facility and Container:	Store in a cool and dry place. Store only in the original packaging and according to the local regulations regarding the storage of explosive materials.
Collective Storage Advice:	Only store with non-dangerous goods or with goods of the same danger class.
Additional Advice to Storage:	None
Storage Classification:	1.4
Compatibility Group:	S

## **8. Explosion Limitation and Protective Equipment**

Additional advice regarding the assembly of the

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device: No data available.

Components of work space oriented threat, to monitor limits:

None.

AGW-value (TRGS 900)			
CAS-No.	Substance	character	value
-	-	-	-
BGW-value (TRGS 903)			
CAS-No.	Substance	BGW-value Parameter	material
-	-	-	-
CMR- Substance (TRGS 905)			
CAS-No.	Substance	category	note
-	-	-	-

Breathing Equipment:

Not required.

Hand Protection:

Not required.

Eye Protection:

Not required.

Body Protection:

Not required.

Limitation and monitoring of exposure:

None.

## 9. Physical and Chemical Qualities

### Appearance

Form:

Metal casing with pressed explosive material inside.

Colour:

Outer Casing: Orange / yellow

Pyrotechnical Contents: Black / grey.

Smell:

Neutral.

### Safety Data:

character	value	method	comment
pH-Value at 20°			Not applicable
Melting Point (°C)			Not applicable
Boiling Point (°C)			Not applicable
Flashpoint (°C)	160 / 320		
Ignition Temperature (°C)			No data available
Vapour Pressure (hPa at 20°C)			Does not apply
Density (g/cm <sup>3</sup> ) :			No data available
Density of Pyrotechnical Contents (g/cm <sup>3</sup> )			Not data availabel
Apparent Density (Kg/m <sup>3</sup> )			No data available
Water solubility (20°C in g/l)			Not water soluble
Distribution Coefficient n-Oktanol/Water (log Pow)			Does not apply
Viscosity Dynamic (mPa s/20°C)			Does not apply
Lower Explosive Limit :			No data available
Upper Explosive Limit:			No data available

## 10. Stability and Reactivity

Thermal Decomposition / Conditions to avoid:

Temperatures >160°C (320°F).

Strong mechanical stress, E.g. through hitting or throwing.

Materials to avoid:

Not defined

Dangerous reactions:

During intended use: Flames, heat and smoke.

Dangerous Corrosive Products:

No data available

## 11. Toxicology Information

(for the products of usage when used in the correct manner)

Acute Toxicity:

Breathing in the combustion gases (air limit 6 mg/m<sup>3</sup>).

Effects on animals:

None.

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Irritation and cauterization effect:  
*On the skin:* None.  
*In the eyes:* None.  
Allegisation: None.  
Subacute / chronic toxicity: Light irritation of the mucus membranes possible.  
Usage related observations:  
*Classification of relevant observation:* When used in the appropriate manner, no danger exists.  
*Other observations:* None.  
Additional advice about Toxicology: None.

## **12. Ecological Information**

Eco-toxicity: Not defined.  
Mobility: Not defined.  
Persistence and Degradability: Not defined.  
Absorption and accumulation in organisms: Not defined.  
Other damaging characteristics: None.  
Additional advice: No ecologically relevant effects are produced during usage.

## **13. Disposal Information**

Disposal / Waste (Product): Smoke Signal, orange  
Recommendation: Disposal should be carried out in accordance with local health and safety, waste, environmental and storage / manufacture of explosives regulations.  
AVV-waste key 160403

## **14. Transport Information**

### **Land transport (ADR,Rid,GGVSE)**

Dangerous Goods Class: 1  
Division / Compatibility Group: 1.4S  
UN-Number: 0507  
Danger Notice: warning sign Yes  
Proper Shipping Name: Signals, Smoke

### **Sea Transport (IMDG-Code/GGVSee)**

Dangerous Goods Class: 1  
Division / Compatibility Group: 1.4S  
UN-Number: 0507  
Packaging Group: II  
Danger Notice: warning sign Yes  
Technical Name: Signals, Smoke

### **Air Transport (ICAO-IATA/DGR)**

Dangerous Goods Class: 1  
Division / Compatibility Group: 1.4S  
UN-Number: 0507  
Packaging Group: II  
Danger Notice: warning sign Yes  
Proper Shipping Name: Signals, Smoke  
Additional advice: None



Explosive substances and explosive articles  
Subclass 1.4

## **15. National and Regional Regulations**

Safety Appraisal: Not applicable  
Labelling:  
*ID Letter for Symbol:* E  
*Indication of Danger:* See point 2 "Hazard Information".  
*Special marking of defined preparation:* Not defined

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<i>Hints of marking</i>	Not defined
Other EU Regulations:	Not defined
National Regulations:	
<i>Activity Limitations:</i>	Minimum age: 18 Years.
<i>Chemicals prohibition regulation:</i>	Not defined
<i>Accident/Failure Regulation:</i>	Does not apply.
<i>TA-Air:</i>	Does not apply.
<i>Water Danger Class:</i>	Not defined
Other Regulations:	Work Protection Law, Health Protection Law, Explosives Regulations und Explosive Law must be conformed to.
Material Safety Evaluation:	The item is not subject to safety evaluations.

## **16. Other Information**

The information in the material safety data sheet is based on our present knowledge. It is intended to describe our products with regard to safety requirements and is not intended to guarantee any particular properties.

This is a voluntary product information. There is no legal obligation to issue a safety data sheet according to Regulation (EC) No 1907/2006.

### Abbreviations and Acronyms

GHS	Globally Harmonized System of Classification and Labelling of Chemicals
CAS-No.	Registrations Number of the "Chemical Abstract Service"
EG-No.	Registrations Number of the „European Inventory of Existing Chemical Substances" (EINECS)
EG-Index-No.	ID Code for a particular dangerous material
AGW-value	Work Place Safety/Limit Value
BGW-value	Biological Work Place Safety/Limit Value
CMR- Substance	Cancerogen, Mutanogen, Fertility Damaging
AVV	Waste Index Regulation