

# GHS-Safety Sheet (EG Nr. 1907/2006)

Product Name: 3 minute floating orange Smoke  
Signal  
Revised:



## 1. Product and Company Information

### Type of Product:

Comet Lifesmoke, orange, Art.-No. 9192000  
Pains Wessex Lifesmoke, orange, Art.-No. 53700 (9537000)

### Area of Usage:

Sea distress signal providing effective position marking during rescue operations and can be used to indicate wind direction, producing dense orange smoke for a minimum of 3 minutes,

### 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: Tel. +049-(0)178-433-7434 (Consultant Lutz Harder GmbH)

## 2. Hazard Information

Classification: Hazard of  
Explosion  
Sub Class

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 + During Fire, evacuate immediate area  
P380  
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
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Smoke orange	81-64-1	201-368-7		
Potassium Chlorate	3811-04-9	223-289-7	017-004-00-3	
Black Powder = Potassium Nitrate Sulfur	7757-79-1 7704-34-9	231-818-8 231-722-6		
Barium Nitrate	10022-31-8	233-020-5	056-002-00-7	
Charcoal	7440-44-0	231-153-3		
Polyolefine	9002-88-4			
Wax	110-30-5	203-755-6		

## 4. First Aid Measures

General Advice: n.d.  
After Inhalation (Combustion Gases): Having problems after inhaling smoke, contact 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:  
Symptoms: Not defined  
Dangers: Not defined  
Actions to be taken: Not defined

## 5. Fire Fighting Measures

Suitable Extinguishing Method: Once signal is ignited, it cannot be extinguished.  
For secondary fires = water  
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:  
Fire Class: None.  
Temperature Class: 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.

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Explosion and Fire Protection Advice:  
Additional Advice:

Protect from exposure to impacts, friction, heat, fire, sparks, electrostatic charges and other ignition sources.  
Do not use damaged product, avoid heat sources.  
Only use product for its official intended purpose.  
None.

## Storage

Requirements of Storage Facility and Container:  
Collective Storage Advice:  
Additional Advice to Storage:  
Dangerous Goods Classification:  
Compatibility Group:

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.  
Only store with non-dangerous goods or with goods of the same danger class.  
None  
1.4  
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## 8. Explosion Limitation and Protective Equipment

Additional advice regarding the assembly of the 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

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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/cm³) :			No data available
Density of Pyrotechnical Contents (g/cm³)			Not data availabel
Apparent Density (Kg/m³)			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/m³).

Effects on animals: None.

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: Not defined.

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organisms:  
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  
Hints of marking: Not defined  
Other EU Regulations: Not defined  
National Regulations:  
Activity Limitations: Minimum age: 18 Years.  
Chemicals prohibition regulation: Not defined  
Accident/Failure Regulation: Does not apply.  
TA-Air: Does not apply.  
Water Danger Class: Not defined  
Other Regulations: Work Protection Law, Health Protection Law, Explosives Regulations und Explosive Law must be conformed to.

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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.

#### 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