

Product Pyrotechnic Gas Generator Type 2	Date 17/07/2018	Page 1 (10)
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There is no need to issue a Safety Datasheet for a product. However, to provide information about pyrotechnical products this Product Safety Datasheet was developed in accordance to Regulation (EC) Nr. 1907/2006 (REACH).

It is explicitly indicated that this information sheet for articles is a voluntarily issued Product Safety Datasheet which is not subject to the formal requirements of the REACH Regulation.

## **Section 1: Identification of product and company**

### **1.1. Product identifier**

Pyrotechnic Gas Generator Type 2  
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### **1.2. Relevant identified application**

Pyrotechnical actuator for gas pressure generation

### **1.3. Manufacturer and supplier of PSDS**

#### **Manufacturer / Supplier**

WesCom Signal & Rescue Germany GmbH

#### **Street**

Vieländer Weg 147

#### **Country-ID / Postcode / Place**

DE – 27574 Bremerhaven

#### **Telephone number / Telefax / E-Mail**

+49 (0) 471 393-0 / +49 (0) 471 393-94 / info@wescomsignal.com

### **1.4. Emergency telephone number**

+49 (0) 178 433 7434 (Consultant Lutz Harder GmbH)

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## Section 2: Hazards identification

### 2.1. Classification of the substances or mixture

Not applicable. The individual housing parts of the pyrotechnic article are positively linked. Substances and mixtures of substances contained can be released only by destroying the object. Under reasonably foreseeable conditions of use there is no risk of the contained substances / substance mixture contained.

### 2.2. Labelling

#### Hazard statements

H204: Fire or projection hazard

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

#### Precautionary statements

P202: Do not handle until all safety precautions have been read and understood.

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

P261: Avoid breathing dust / fume / gas / mist / vapours / spray.

P281: Use personal protective equipment as required.

P370+P374: In case of fire: Fight fire with normal precautions from a reasonable distance.



Warning

### 2.3. Other hazards

Risk of burnings through direct contact of used article.

Risk of irritation of eyes and / or respiratory tract by combustion products.

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### Section 3: Composition / information of hazardous ingredients

The pyrotechnic article is hermetically sealed to his environment. Due to the positively linked housing parts, a release of ingredients can only be achieved by destroying. In normal or reasonably foreseeable conditions of use including proper disposal the substance or the mixture cannot be released.

Hazardous ingredients:

Identification name	CAS-N°	EC-N°	EC-Index-N°
Nitrocellulose	9004-70-0		603-037-01-3
Nitroglycerin	55-63-0	200-240-8	603-34-00-X

### Section 4: First aid measures

#### General Notes

Always use the current state of first aid measures. If you feel unwell, nausea or have blurred vision, dizziness or at any suspicion of acoustic trauma or other symptoms, consult a physician immediately.

#### Following inhalation

After excessive inhalation supply of fresh air is necessary. As the circumstances require consult a physician.

#### Following skin contact

In case of burning keep cool and abacterial. Remove pyrotechnical residues with water and soap. As the circumstances require consult a physician.

#### Following eye contact

Rinse immediately with plenty of clear water. As the circumstances require consult a physician.

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## **Section 5: Firefighting measures**

### **5.1. Extinguishing media**

After triggering the pyrotechnical article cannot be extinguished. Fight incipient and secondary fires with suitable extinguishing agent.

### **5.2. Special hazards**

During fire, the product may release large amounts of gas and heat. Note Hazard and Precautionary statements!

### **5.3. Advice for firefighters**

Fight fire from reasonable distance (see Precautionary statements, Section 2.2). Wear self-contained breathing apparatus.

## **Section 6: Accidental release measures**

On delivery, the pyrotechnic article is hermetically sealed to his environment. Due to the form-fitting interconnected housing parts, a release can only be achieved by destroying. In normal or reasonably foreseeable conditions of use including proper disposal of the substance or the mixture cannot be released.

### **6.1. Personal precautions and protective equipment**

If there is an accidental release of the substance or mixture of substances by destruction of the object, ignition sources must be kept away. The pyrotechnic ingredients can be triggered by heat, friction, impact or sparks (e.g. by electrostatic discharge).

### **6.2. Environmental precautions**

Keep the substance or mixture of substances away from waters, waste water or soil. Note disposal guidelines (see Section 13).

### **6.3. Cleaning instructions**

Pick up the destroyed pyrotechnic article and the pyrotechnic. Put both into a clean container. For disposal, hand over the container to an authorised dealer.

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## Section 7: Handling and storage

### 7.1. Precautions for safe handling

Note manual.

Do not open product forcibly. Do not use damaged products.

### 7.2. Conditions for safe storage

Note respective country-specific regulations.

Store only in original packaging.

Temperature range (°C): -30 to +60

### 7.3. Specific end use

The pyrotechnic article may only be used for intended purpose within the specified period of use.

#### Advice on safe handling

Avoid excessive impact, friction and heat loads. Keep away from sources of ignition and ESD.

If possible, do not breathe combustion gases and smoke. Ensure adequate ventilation. Note Section 8.

Temperature range (°C): -30 to +60


Safety area (m): 0,5 in direction of gas outlet

Noise (dB( )): -- at --m

Application: Out- and indoor use possible.

#### Information about fire and explosion protection

Before use, ensure that there will be no secondary fires caused by leaking gas, heat radiation or escaping flames.

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## Section 8: Personal protection equipment (PPE)

Technical measures and the use of suitable working procedures and instructions have priority over the use of PPE. Ensure good ventilation.

### 8.1. PPE at test purposes\*

#### **General protective and hygiene measures**

Do not breathe combustion products. Avoid skin-contact.  
If possible, do test under security.

#### **Respiratory protection**

Not necessary.

#### **Hand protection**

Use fire-resistant gloves.

#### **Eye protection**

Use safety goggles.

#### **Ear protection and protective wear**

Wear appropriate ear protection. See Section 7.3 for maximum noise hazard. Wear ESD safety shoes.

### 8.2. PPE at appropriate use

#### **General protective and hygiene measures**

Do not breathe combustion products. Avoid skin-contact.

#### **Respiratory protection**

Not necessary.

#### **Eye protection**

Not necessary.

#### **Ear protection and protective wear**


Wear appropriate ear protection. See Section 7.3 for maximum noise hazard. Use fire-resistant gloves if possible. If possible, wear ESD safety shoes.

\* At regular periodic inspections (e.g. in the context of quality control).

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance:** see picture Section 1.1

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## 9.2. Other information

<b>Ignition temperature (°C):</b>	160
<b>Ignition current (mA):</b>	1000 for 0,04 sec
<b>ESD safety (kV):</b>	25 at 50000hm / 500pF

## Section 10: Stability and reactivity

With proper storage, transport and use, no hazards are expected.

### 10.1. Conditions to avoid

Note Section 7 „Handling and storage“.

### 10.2. Hazardous combustion products

Combustion products are, inter alia, carbon dioxide, carbon monoxide and nitrous gases.

## Section 11: Toxicological information

When used properly, no health damage is expected.

The ingredients can be harmful in detail, but are hermetically enclosed in the subject and may be released after destruction only.

Combustion products should not be inhaled; contact with the skin should be avoided.

### Other information

Defusing the pyrotechnic article must only be done by qualified personnel in accordance with national policies and by taking into account any recommendations by the manufacturer. In case of any accidental release of the substance or mixture of substances note Section 6.

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## Section 12: Ecological information

When used properly, no damage to the environment is expected.

The ingredients can be harmful in detail, but are hermetically enclosed in the subject and may be released only after destruction.

## Section 13: Disposal considerations

Used products should be disposed in accordance with national waste disposal regulations and, if necessary, additional rules and directives.

Non-used products should be disposed in accordance with disposal code 160403 (acc. Regulation 1013/2006/EC).

## Section 14: Transport information

### 14.1. UN-Number

0432

### 14.2. UN proper shipping name

Articles, Pyrotechnic

### 14.3. Transport hazard class

ADR / RID / IMDG-Code /ADN / ICAO-TI / IATA-DGR

1.4

### 14.4. Compatibility group

S

### 14.5. Packing group

II



### 14.6. Special precautions for users

Note Section 6 – 8



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## **Section 15: Regulatory information**

No labeling required according to Regulation (EC) No. 1907/2006.

Note the relevant national regulations.

Labeling required according to Directive 2013/29/EC.

## **Section 16: Other information**

### **Changes since the last version**

Section 16: Specification of net explosive mass was incorrect.

### **Legal information**

Class: Gas generators

Category: P1

Registry number: 0589-P1-0651

Net explosive mass: 50 mg

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### Abbreviations and Acronyms

EC	European Commission
EU	European Union
CAS	Chemical Abstract Service
REACH	Registration, Evaluation, Authorisation and Restriction of Chemical Substances
PPE	Personal protection equipment
ESD	Electro Static Discharge
UN	United Nations
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
IMDG-Code	International Maritime Dangerous Goods Code
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterway
ICAO-TI	International Civil Aviation Organisation – Technical Instructions For The Safe Transport of Dangerous Goods by Air
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
P1	Pyrotechnic articles other than fireworks and theatrical pyrotechnic articles which present a low hazard.

### Training to ensure protection for human health and environment

Not necessary. Note users manual!