

SAFETY DATA SHEET

Product: PYROFOG PF01

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1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Identification of the product

Chemical name: n/a
Trade name: **PYROFOG PF01**

Use of the product

The product is used for security reasons inside buildings, rooms, campers, caravans, boats and other confined environments against intruders and thieves. The item is ignited by two electric igniters connected to an alarm system.

Manufacturing Company

PANZERA EVENTI S.r.l.
Regione Olmi 78
10041 Carignano (TO) – ITALY
e-mail: info@panzera.it

Emergency telephone

+39 011 9697308

2. HAZARDS IDENTIFICATION

Labeling according to Regulation (EC) No 1272/2008 [CLP]

Classification: Division 1.4
Category (directive 2007/23/CE): P1

GHS Pictogram:



Signal Word:

Warning

Hazard and Precautionary Statements:

H204	Fire or projection hazard
P210	Keep away from heat, sparks and open flames — No smoking
P250	Do not subject to grinding, shock or friction
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 a dry place and in compliance with national provisions
P501	Dispose of the product according to national provisions

Additional Advices for People and Environment:

Keep away from children
Keep away from moisture and water
Follow written instruction for installation



The product must be used by people more than 18 years old

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3. COMPONENTS INFORMATION

Chemical characteristics: Oxidizer and fuel mixture
 Description: Pressed pyrotechnical powder
 Net Explosive Content (NEC): 132 g
 Product total weight: 312 g

Chemical name	Formula	CAS-No.	EC-No.	Index-No.	Content (%)	H – statements*
Smoke Composition						
Potassium chlorate	KClO ₃	3811-04-9	223-289-7	017-004-00-3	< 10	H271, H302, H332, H411
White dye	C ₁₅ H ₁₀ O ₂	84-54-8	-	-	< 3	-
Ignition composition						
Potassium nitrate	KNO ₃	7757-79-1	231-818-8	-	< 0.5 %	H272
Sulfur	S	7704-34-9	231-722-6	016-094-00-1	< 0.5 %	H315
Potassium Chlorate	KClO ₃	3811-04-9	223-289-7	017-004-00-3	< 3 %	H271, H302, H332, H411

* For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

It regards the substances inside the product only. In case of:

Skin Contact: Flush with water
 Contact with eyes: Wash immediately with abundant water and consult a physician
 Swallowing: Seek immediately medical help
 Inhalation: If the injured inhales combustion gases, bring him to open air and eventually consult a physician

5. FIRE-FIGHTING MEASURES

Precautions: Do not keep the product at temperature over 65°C. Bring the product out of flames. DO NOT TRY TO EXTINGUISH THE FIRE AND STAY AT SAFETY DISTANCE.
 Means of extinction: For secondary fires use chemical extinguishers or sand. Do not use water.
 Risks in case of fire of the product: High emission of fumes. Protect respiratory organs. Risk of explosion in case of fire.

6. ACCIDENTAL RELEASE MEASURES

In case of breaking of the packaging and discharge of the mixture, pick it by dustpan (if possible plastic) and broom and put the material in a plastic container. Keep out of flames and sparks. Call immediately police or firemen just in case of great product losses.

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7. HANDLING AND STORAGE

- Handling:** Operating instructions are reported in specific written instruction.
Protect from exposure to impacts, friction, heat, fire, spark, electrostatic charges and other ignition sources.
Do not use damaged products.
- Storage:** Store in a dry and airy place and with a temperature between -5°C and 40°C.
Keep the package off the ground to avoid moisture absorption.
Keep away from ignition and heat sources.
Store according to the local regulations.
Only store with non-dangerous materials or with goods of the same danger class.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

If substances come out from a damaged or defective product use the precautions reported below.

- Respiratory protections:** Do not inhale fumes or vapors sent forth in working. Use a mask with filters.
- Eye protections:** Use protective glasses.
- Skin and hands protections:** Handle the material accidentally leaked wearing rubber or PVC gloves. Avoid contact with skin and garments.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Aluminum case packed inside a plastic case

Smell: None

Health, Safety and Environmental information (referred to the pyrotechnical composition):

Character	Value	Method	Comment
pH-value at 20°C			n/a
Melting point (°C)			n/a
Boiling Point (°C)			n/a
Flashpoint (°C/°F)			n/a
Ignition Temperature (°C)	> 430		
Vapor Pressure (hPa at 20°C)			n/a
Density (g/cm ³)			n/a
Density of pyrotechnical content (g/cm ³)			No data available
Apparent density (kg/m ³)			n/a
Water solubility (20°C in g/l)			Composition partially soluble
Partition coefficient n-octanol/water (logP)			n/a
Dynamic viscosity (mPa·s at 20°C)			n/a
Evaporation rate			n/a
Lower explosive limit			No data available
Upper explosive limit			No data available

10. STABILITY AND REACTIVITY

Conditions to avoid: Temperature < - 30°C
Temperature > 65°C
Strong mechanical impacts and frictions.
Near potential sparks sources.

Materials to avoid: Avoid contact of the composition with organic materials and other fuels.

Hazardous reaction products: During the reaction of the pyrotechnical components dangerous gases and particles such as NO_x and CO are produced. However, when the product is used in the appropriate manner no danger exists and it is not necessary to take precautions.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity: Breathing in the combustion gases for more than 15 minutes.
 Chronic toxicity: After long exposure it may cause skin, eyes and mucosa irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not defined
 Mobility: Avoid the product release in water (rivers, lakes, sea). It may slowly decompose and release metal oxides, nitrates and chlorine compounds easily absorbed by water and soil.
 Persistence and degradability: The composition inside the product is partially water soluble.
 Bioaccumulative potential: Not defined
 Other advices: The combustion gases may contribute to the greenhouse effect if release in very high quantities.

13. DISPOSAL CONSIDERATIONS

Disposal should be carried out in accordance with local health, safety, waste, environmental, storage/manufacture of explosives regulations.

EWC code: 160403 (other waste explosives)
 Recyclability: Non-contaminated packages may be recycled
 Other advices: Depending on local regulations, not conforming, damaged or expired products could be destroyed by combustion by specialized authorities with appropriate tools in an appropriate area.

14. TRANSPORT INFORMATION

Transport by land, sea and air

Dangerous Good Class: 1
 Compatibility Group: 1.4 S
 UN-number: 0507
 Danger notice/warning signal: Yes
 Proper shipping name: SIGNALS, SMOKE

Transport pictogram:



15. REGULATORY INFORMATION

For the handling, use, storing, transport and disposal of this product follow the local, national and international rules and the regulations in force.

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16. OTHER INFORMATION

Referring to Section 3 of this Safety Data Sheet, H-statements for the inner composition components are clarified below:

H-statements

H271	May cause fire or explosion; strong oxidizer
H272	May intensify fire; oxidizer
H302	May be harmful if swallowed
H315	Causes skin irritation
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

The information reported in this Safety Data Sheet describes safety requirements that may not be valid if the product is used in combination with other products. The information is based on today knowledge of the product and its components. The company is not responsible for improper or incorrect use, different from what indicated in instructions.