



Safety Data Sheet

Comply with Annex II to Regulation (EC)
No. 1907/2006

Data di emissione: 23/06/2016
Versione: 1.0

The product object of the present document is a **PYROTECHNIC ARTICLE**, category P1, and this Safety Data Sheet is supplied to professional users in order to ensure greater safety of use, in accordance with the requirements of Directive 2013/29/EU.

Fumogeno Smoke 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Trade name: **Fumogeno a mano**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified use: handheld light signal used in daylight.

Uses advised against: recommended use are listed above; other uses are not recommended unless an assessment has provided that risks are controlled.

1.3. Details of the supplier of the safety data sheet

Company:

F.D.F. srl

Via Franchi Pezze, 18

83017 Pannarano (BN) - Italia

Telefono: +39 0824 830780

Fax: +39 0824 830942

E-mail address of competent person responsible for the SDS: fdfsales@tin.it

1.4. Emergency telephone number

Phone: +39 3356388351/3496653350 (24h).

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC and following amendments thereof:

Explosives, div. 1.4; H204

(For full text of hazard statements H see section 16)

2.2. Label elements

Pictograms:



Signal Word:

WARNING

H-statements:

H204: Fire or projection hazard

Precautionary Statement:

P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear suitable protective gloves. Protect the face.

P370+P380: In case of fire: Evacuate area.

P372: Explosion risk in case of fire.

P501: Dispose of contents according to national regulation.



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Product identifiers:

None.

2.3. Other hazards

PBT Substances: none

vPvB Substances: none

Other hazards: during use of the article there is a danger of burns for contact with the upper metal tube and in the case in which the jet is point at people. Inhalation of fumes produced during use of the article may cause respiratory irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A.

3.2. Mixtures

The fire-eater is an article consisting of a metallic cylinder containing the pyrotechnic mixture and a plastic handle.

Hazardous components within the meaning of Regulation 1272/2008/EC and related classification:

40% - 60% Potassium chlorate

Index number: 017-004-00-3, CAS: 3811-04-9, EC: 233-289-7

 Ox. Sol. 1; H271

 Acute Tox. 4; H302

 Acute Tox. 4; H332

 Aquatic Chronic 2; H411

1% - 5% Potassium perchlorate

Index number: 017-008-00-5, CAS: 7778-74-7, EC: 231-912-9

 Ox. Sol. 1; H271

 Acute Tox. 4 *; H302

1% - 3% Barium nitrate

Index number: 056-002-00-7, CAS: 10022-31-8, EC: 233-020-5

 Ox. Sol. 2 ; H272

 Acute Tox. 4; H302

 Acute Tox. 4; H332



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1% - 2% Potassium nitrate
CAS: 7757-79-1, EC: 231-818-8

 Ox. Sol. 2; H272

Additional information: for full text of H-statements see SECTION 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:

It does not occur under normal conditions of handling of the product.

In case of burns rinse with water for at least 20 minutes and seek medical advice.

In case of eyes contact:

It does not occur under normal conditions of handling of the product.

In case of contact with the inner material wash eyes immediately with plenty of water for at least 15 minutes, holding eyelids open; seek immediate medical attention.

In case of Ingestion:

It does not occur under normal conditions of handling of the product.

In case of accidental ingestion, rinse the mouth. Do not induce vomiting. Call a physician immediately.

In case of Inhalation:

It does not occur under normal conditions of handling of the product.

In case of Inhalation of fumes:

- bring the affected person, if possible, outdoors;
- obtain medical care as soon as possible.

4.2. Most important symptoms and effects, both acute and delayed

Skin burns in case of contact with gas and the overheated casing. Irritation respiratory tract by inhalation of fumes produced during use.

4.3. Indication of any immediate medical attention and special treatment needed

Seek immediate medical attention in case of accident and make a symptomatic treatment.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Use extinguishing measures appropriate to local situation and the surrounding environment.

Extinguish surrounding fires with spray water, foam, dry extinguishing powder, carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None.

5.2. Special hazards arising from the substance or mixture

If the product is involved in a fire can be released nitrogen oxides (NO_x) potassium oxides, carbon oxides, sulfur oxides and nitrous gases, can generate large amount of heat.

5.3. Advice for fire-fighters

In the event of a fire involving the product:

- wear apparatus equipped with breathing apparatus;



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- fight fire with normal precautions from a safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

The handheld smoke is supplied as a sealed article. Large spillage, or significant releases of material in case of an accident, are difficult events to be realized.

In case of accidental release or accidental spillage of the contents, decontaminate area affected by the spill by authorized personnel.

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Wear suitable protective equipment to prevent contamination of the skin, eyes and workwear.
Do not inhale dust.

For the specialist to the emergency:

Wear suitable gloves (see Section 8.2) and dust mask.

Wear retardant clothing for the fire.

Remove all ignition sources nearby.

Provide anti-static and non-sparking equipment appropriate to the operations to be performed.

6.2. Environmental precautions

Avoid as much as possible that the residual material, or any type of dust formed by the discharge, can be released to the environment.

6.3. Methods and material for containment and cleaning up

Collect spillage of material mechanically with non-sparking tools. Check the level of dust and keep moist with water.

Do not leave the leach residue cleaning up into drains or drains.

Place the recovered material in appropriate containers identified and labeled for later disposal.

6.4. Reference to other sections

See also SECTION 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

- Once activated produce dense coloured smoke. Do not inhale the smoke.
- Keep away from heat.
- No smoking.
- Do not sabotage or dismantle the product.
- If damaged do not use.
- Do not use after expiry date.
- Do not fire in confined space.
- Friction igniter with 3 seconds delay time, duration > 60 second

7.2. Conditions for safe storage, including any incompatibilities

Storage in accordance with national regulations applicable in dry conditions, protected from high temperatures and possible sources of ignition.

Do not expose to temperature above 100 °C. Ground/bond container and receiving equipment. Do not subject to grinding/shock or friction.

Self life: 4 years, since manufacturing date.

7.3. Specific end use(s)



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Handheld light signal used in daylight, on folkloristic manifestation and for stage effects. For outdoor use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

Substance	Reference	Value
Barium nitrate CAS: 10022-31-8	ACGIH 2015	TLV-TWA: 0,5mg/m ³
Naphthalene CAS: 91-20-3	Dir 91/322/EEC	OEL-TWA EU: 50 mg/m ³ ; 10 ppm
	ACGIH 2015	TLV-TWA: 10 ppm

DNEL Exposure Limit Values

N.D.

PNEC Exposure Limit Values

N.D.

8.2. Exposure controls

Occupational exposure controls:

Do not light fires, emitting sparks or carry out welding operations close to the products.

Eye protection:

Use protective glasses (EN 166).

Protection for skin:

Wear work clothes with long sleeves and safety footwear for professional use Category I (Directive 89/686 / EEC and standard EN ISO 20344).

Protection for hands:

In case of prolonged contact it is recommended to protect your hands with work gloves resistant to penetration (EN 374).

In case of handling overheated product after normal use put on gloves that provides heat protection.

Respiratory protection:

In case of dust use dust masks Type P conform to EN143 or type FFP-S conform to EN149.

Environment exposure control:

Do not put this product into sewers, surface water and groundwater.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Cylindrical metal container
Smoke colour:	Orange, white, blue, yellow, red, black, green or violet.
Odour:	None
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.



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Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Flash point: N.A.
Evaporation rate: N.A.
Vapour pressure: N.A.
Relative density: N.A.
Solubility in water: insoluble.
Lipid solubility: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: > 200°C
Decomposition temperature: N.A.
Viscosity: N.A.
Explosive properties: Explosive. Once activated produce dense coloured smoke.
Oxidizing properties: Content has oxidizing properties.

9.2. Other information

Smoke composition (NEC): ca. 26 gr.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions of handling and storage.

10.2. Chemical stability

Stable at temperature and pressure values under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

Stable at temperature and pressure values under normal conditions of handling and storage.

10.4. Conditions to avoid

Do not expose to temperature above 100 ° C.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

If the product is involved in a fire emits a large amount of smoke and radiates a high heat.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information relating to the explosive mixture:

During use can occur irritation of the respiratory tract caused by fumes.

Toxicological information regarding main substances contained in the explosive mixture:

Potassium chlorate - CAS: 3811-04-9

LD₅₀ (oral, rat): 1 mg/kg

The substance is sealed in the product and then does not contribute to health hazards.

In the unlikely event of a partial breakage of containing explosive material, it should be underlined that the substance is harmful if ingested, and even small amounts can cause serious health problems (stomach pain, nausea, vomiting, diarrhea); and if inhaled, exposure symptoms may include: burning and irritated eyes, mouth, nose and throat, coughing, difficulty breathing, dizziness, headache, nausea and vomiting. In severe cases, it can cause inflammation and edema of the larynx and bronchial tube, chemical pneumonitis and pulmonary edema.

- *Acute toxicity:* the substance is classified Harmful if swallowed and inhaled, category 4,



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according to Regulation (EC) n. 1272/2008.

- *Skin corrosion/irritation*: not classified according to available informations;
- *Serious eye damage/irritation*: not classified according to available informations;
- *Respiratory or skin sensitisation*: not classified according to available informations;
- *Germ cell mutagenicity*: not classified according to available informations;
- *Carcinogenicity*: not classified according to available informations;
- *Reproductive toxicity*: not classified according to available informations;
- *Specific Target Organ Toxicity - single exposure*: not classified according to available informations;
- *Specific Target Organ Toxicity - repeated exposure*: not classified according to available informations;
- *Aspiration hazard*: not classified according to available informations.

Potassium perchlorate - CAS: 7778-74-7

The substance is sealed in the product and then does not contribute to health hazards.

In the unlikely event of a partial breakage of containing explosive material, it should be underlined that the substance is harmful if ingested, and even small amounts can cause serious health problems (stomach pain, nausea, vomiting, diarrhea).

- *Acute toxicity*: the substance is classified Harmful if swallowed, category 4, according to Regulation (EC) n. 1272/2008.
- *Skin corrosion/irritation*: not classified according to available informations;
- *Serious eye damage/irritation*: not classified according to available informations;
- *Respiratory or skin sensitisation*: not classified according to available informations;
- *Germ cell mutagenicity*: not classified according to available informations;
- *Carcinogenicity*: not classified according to available informations;
- *Reproductive toxicity*: not classified according to available informations;
- *Specific Target Organ Toxicity - single exposure*: not classified according to available informations;
- *Specific Target Organ Toxicity - repeated exposure*: not classified according to available informations;
- *Aspiration hazard*: not classified according to available informations.

Barium nitrate - CAS: 10022-31-8

LD₅₀ (oral, rat): 355 mg/kg

The substance is sealed in the product and then does not contribute to health hazards. In the unlikely event of a partial breakage of containing explosive material, it should be underlined that the substance is harmful if ingested, and even small amounts can cause serious health problems (stomach pain, nausea, vomiting, diarrhea); and if inhaled, exposure symptoms may include: burning and irritated eyes, mouth, nose and throat, coughing, difficulty breathing, dizziness, headache, nausea and vomiting. In severe cases, it can cause inflammation and edema of the larynx and bronchial tube, chemical pneumonitis and pulmonary edema.

- *Acute toxicity*: the substance is classified Harmful if swallowed and inhaled, category 4, according to Regulation (EC) n. 1272/2008.
- *Skin corrosion/irritation*: not classified according to available informations;
- *Serious eye damage/irritation*: not classified according to available informations;
- *Respiratory or skin sensitisation*: not classified according to available informations;



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- *Germ cell mutagenicity*: not classified according to available informations;
- *Carcinogenicity*: not classified according to available informations;
- *Reproductive toxicity*: not classified according to available informations;
- *Specific Target Organ Toxicity - single exposure*: not classified according to available informations;
- *Specific Target Organ Toxicity - repeated exposure* not classified according to available informations;
- *Aspiration hazard*: not classified according to available informations.

Potassium nitrate - CAS: 7757-79-1

LD₅₀ (oral, rat): 3750 mg/kg

The substance is sealed in the product and then does not contribute to health hazards.

- *Acute toxicity*: not classified according to available informations;
- *Skin corrosion/irritation*: not classified according to available informations;
- *Serious eye damage/irritation*: not classified according to available informations;
- *Respiratory or skin sensitisation*: not classified according to available informations;
- *Germ cell mutagenicity*: not classified according to available informations;
- *Carcinogenicity*: not classified according to available informations;
- *Reproductive toxicity*: not classified according to available informations;
- *Specific Target Organ Toxicity - single exposure*: not classified according to available informations;
- *Specific Target Organ Toxicity - repeated exposure* not classified according to available informations;
- *Aspiration hazard*: not classified according to available informations.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Do not release into the environment. Dispose of contents / container in accordance with national regulations. See section 13.

Ecotoxicological information relating to the main substances contained in the explosive mixture:

Potassium chlorate - CAS: 3811-04-9

LC₅₀ (crustacea, 24h): 880 mg/l

Potassium nitrate - CAS: 7757-79-1

LC₅₀ (Fish, 96h): 190 mg/l

EC₅₀ (crustacea, 48h): 490 mg/l

12.2. Persistence and degradability

Potassium chlorate - CAS: 3811-04-9

The substance in aerobic environment is not readily biodegradable, while in anaerobic environment result to be biodegradable.

12.3. Bioaccumulative potential

Potassium chlorate - CAS: 3811-04-9

Chlorate in plants is converted to chlorite. Chlorite is accumulated in cells until toxic concentrations are reached and the plant dies. There is not evidence of accumulation in animals.

12.4. Mobility in soil

Potassium chlorate - CAS: 3811-04-9



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It can be leached from the soil. It remains dissolved in the water.

12.5. Results of PBT and vPvB assessment

Product does not fulfill the PBT criteria.

Product does not fulfill the vPvB criteria.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Any residue from the spill of the inner mixture should be placed in properly labeled containers for disposal.

Product must be treated as hazardous waste and must be disposed of responsibly in accordance with local regulations.

After fail use, destroy using the following method: Stockpile wood to fuel a bonfire. Place the firework on the wood pile. Cover the firework with a 10 mm steel plate cage with perforations with a diameter of 0.7 mm and with a distance between holes of 30 mm. Start the fuel, creating a bonfire. Retire to a safe distance of 25 m until both the combustions of the article and the bonfire has ceased. Gather the remains of the combustion and trasport to a recycling centre for further instructions about their disposal. Do not empty into drains.

After normal use, dispose conforming regulations of the country in which the article was used.

SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID/ADN)	Maritime transport (IMDG Code)	Air transport (ICAO T.I./IATA)
14.1 UN number	0337	0337	0337
14.2 UN proper shipping name	FIREWORKS	FIREWORKS	FIREWORKS
14.3 Transport hazard class(es)	1.4 S	1.4 S	1.4 S
Label			
14.4 Packing group	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Not classified	Not classified	Not classified
14.6 Special precautions for user	(*)	EmS : F-B, S-X (*)	FORBIDDEN (*)
14.7 Transport in bulk according to Annex II of	Not applicable	Not applicable	Not applicable

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MARPOL 73/78 and the IBC Code			
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(*) Transport, within loading and unloading, of dangerous goods should be carried out by people trained in compliance with transportation regulations.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Not listed.

Regulation (EC) No 850/2004 on Persistent Organic Pollutants, Annex I

Not listed.

Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1

Not listed.

Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2

Not listed.

Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3:

Not listed.

Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals, Annex V:

Not listed.

Regulation (EC) No 1907/2006, Article 59 (1) [Candidate List of SVHC]:

Not listed.

Regulation (EC) No 1907/2006, Annex XIV:

Not listed.

Regulation (EC) No 1907/2006, Annex XVII:

Not listed.

15.2. Chemical Safety Assessment

Not scheduled for an article, according to the Regulation (EC) No. 1906/2007.

SECTION 16: OTHER INFORMATION

Date: 23/06/2016

Type of revision: first edition.

Comply with Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (UE) 2015/830.

This document was prepared by a competent person who has received appropriate training.

Acronyms and abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.



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IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO T.I.: International Civil Aviation Organization Technical Instructions.

IC₅₀: inhibitory concentration for 50 percent of test population

IMDG: International Maritime Dangerous Goods Code.

LC₅₀: Lethal concentration, for 50 percent of test population.

LD₅₀: Lethal dose, for 50 percent of test population.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.

NIOSH-REL: National Institute for Occupational Safety and Health (USA) - Recommended Exposure Limits.

NOEC: No Observed Effect Concentration.

OSHA-PEL: Occupational Safety & Health Administration (USA) - Permissible Exposure Limits.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limit Value.

TWA/TLV: Threshold Limit Value for the Time Weighted Average 8 hour day.

UN: United Nations.

WEL: Workplace Exposure Limits

Remarks

N.A. = not applicable

N.D. = not determined

Safety data sheet complying with:

- Regulation (EC) n. 1907/2006 (REACH) and following amendments;
- Regulation (EC) n. 1272/2008 (CLP) and following amendments;

Legislation and reference sources

- Regulation (EC) n. 1272/2008 (Classification, labeling and packaging of substances and mixtures)
- ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- International Maritime Dangerous Goods Code (IMDG Code)
- International Air Transport Association (IATA)
- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- Information from the SDS of suppliers.

Classification procedure	
Class	Classification method (CLP Regulation)
Explosives, div. 1.4	Testing method according to Annex I, section 2.1.2

Full text of H-statement referred to in SECTION 2 and 3:

H204: Fire or projection hazard.



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H271: May cause fire or explosion; strong oxidiser.

H272: May intensify fire; oxidiser.

H302: Harmful if swallowed.

H332: Harmful if inhaled.

H411: Toxic to aquatic life with long lasting effects.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.