

	Safety Data Sheet Comply with Annex II to Regulation (EC) No. 2020/878	Updated: 04.08.2023
The product object of the present document is a PYROTECHNIC ARTICLE , category P2, 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.		

Rocket Parachute (pyrotechnics) - "Orion IT23"

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

1.1. Product Identifier

Trade name: **Orion IT23**

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

Identified use: short range distress signal.

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

82017 Pannarano (BN) - Italia

Phone: +39 0824 830780

Fax: +39 0824 830942

E-mail address of competent person responsible for the SDS: fdfsales@pec.it; info@fdfnautica.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.

P234: Keep only in original packaging.

P280: Wear suitable protective gloves. Protect the face.

P370+P372+P380+P373: In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.

P501: Dispose of contents/container in accordance with national regulation.

Product identifiers:

None.

2.3. Other hazards

PBT Substances: none

vPvB Substances: none

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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 rocket parachute Orion IT23 is a long-range distress signal to indicate your position at night or during the day. It's used on command decks, in launches and life rafts, for pleasure boats and commercial navigation. It produces a hot red flame.

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

10% - 25% Potassium nitrate

CAS: 7757-79-1, EC: 231-818-8

 Ox. Sol. 2; H272

25% - 35% Strontium nitrate

CAS: 10042-76-9, EC: 233-131-9

 Ox. Sol. 1; Ox. Liq. 1 H271

 Eye Dam. 1; H318

10% - 25% Magnesium, powder

Index number: 012-002-00-9, CAS: 7439-95-4, EC: 231-104-6

 Self.heat, 1 H252

 Flam. Sol. 1; H228

 Water-react. 2 H261

1% - 5% Sulfur

CAS: 7704-34-9, EC: 231-722-6

 Skin Irrit. 2; H315

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

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

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In case of skin contact:

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

In case of contact with the inner material, remove clothing and wash exposed areas with plenty of water and soap. 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, away from the contaminated area;
- obtain medical care as soon as possible.

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

Eyes and respiratory tract irritation in case of exposition to 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 systems compatible with the local situation and the surrounding environment.

- Special powder for metal fires.
- Dry sand

Extinguishing media that must not be used for safety reasons:

- Water
- Foam
- Carbon dioxide

For large fires: do not try to put out. Call the firefighters.

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;
- fight fire with normal precautions from a safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

The rocket parachute is 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

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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 all damaged and undamaged products and replace in original packaging for disposal. Spillage of material should be treated with dry sand and collected 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. The area should be then washed with water.

6.4. Reference to other sections

See also SECTION 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

- Handle with care.
- Follow printed instructions on this product at all times.
- When fired a rocket projectile is forcefully ejected from this product.
- Keep away from heat and sources of ignition.
- No smoking.
- Do not sabotage or dismantle the product.
- If damaged do not use.
- Do not point at people or property.
- Do not fire in confined space.
- Only for emergency use at sea.
- Do not use after expiry date.
- Once activated produce red hot flame.
- Pull wire igniter.
- Delay time: 2 s.
- Safety distance: 2 m.

7.2. Conditions for safe storage, including any incompatibilities

Storage in accordance with national regulations applicable in dry conditions and well ventilated area, protected from high temperatures and possible sources of ignition, or direct sunlight.

Storage at temperature between -30°C to +65°C. Ground/bond container and receiving equipment. Do not subject to grinding/shock or friction.

Shelf life: 4 years, since manufacturing date.

7.3. Specific end use(s)

Long range marine distress signal, use on ship, lifeboats, life rafts and for pleasure craft. It can also be used as a sighting signal.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

N.D.

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).

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 container
Smoke colour:	Red
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.
Upper/lower flammability or explosive limits:	< 300 °C
Vapour density:	N.A.
Flash point:	> 600 °C
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.
Oxidizing properties:	Content has oxidizing properties.

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9.2. Other information

Light intensity: 30.000 cd

NEC: 106 g

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

Keep product away from heat and sources of ignition.

10.5. Incompatible materials

Solvents, hydrocarbons, petroleum based products.

10.6. Hazardous decomposition products

If the product is involved in a fire emits a large amount of aerosol 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 nitrate - CAS: 7757-79-1

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

- Acute toxicity: **LD₅₀** (oral, rat) > 2.000 mg/kg
LD₅₀ (cutaneous, rat): 5.000 mg/kg
LC₅₀ (inhalation, rat): 537 mg/L/4h
- 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.

Strontium nitrate - CAS: 10042-76-9

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 can cause serious eye damage with corneal opacity, iris lesions, irreversible eye coloration.

- Acute toxicity: **LD₅₀** (oral, rat): > 2000 mg/kg
- Skin corrosion/irritation: not classified according to available informations;
- Serious eye damage/irritation: the substance is classified as Serious eye damage,

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category 1, according to Regulation (EC) n. 1272/2008.

- 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.

Magnesium, powder - CAS: 7439-95-4

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.

Sulfur - CAS: 7704-34-9

The substance is sealed in the product and then does not contribute to health hazards. The substance may cause a slightly irritating to the eyes, skin and respiratory tract.

- Acute toxicity: **LD₅₀** (oral, rat): 2.000 mg/kg
LD₅₀ (cutaneous, rat): 2.000 mg/kg
LC₅₀ (inhalation, rat, 4h): 5,77+/- 0,35 mg/L
- Skin corrosion/irritation: May cause skin irritation;
- 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,

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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.

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 nitrate - CAS: 7757-79-1

LC₅₀ (Fish, *Poecilia reticulata*, 96h): 1.378 mg/L

Strontium nitrate - CAS: 10042-76-9

LC₅₀ (Fish, *Cyprinus carpio*, 96h) > 973 mg/L

EC₅₀ (Crustaceans, *Daphnia magna*, 48h): 3.019 mg/L

NOEC (Chronic Crustaceans, *Daphnia magna*): 507 mg/L

NOEC (chronic algae-plants, *Pseudokirchneriella subcapitata*): 1.047 mg/L

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Product does not fulfill the PBT criteria.

Product does not fulfill the vPvB criteria.

12.6. Endocrine disrupting properties

None known.

12.7. 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 transport to a recycling centre

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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 or ID number	0505	0505	0505
14.2 UN proper shipping name	SIGNALS, DISTRESS, ship	SIGNALS, DISTRESS, ship	SIGNALS, DISTRESS, ship
14.3 Transport hazard class(es)	1.4 G	1.4 G	1.4 G
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 Maritime transport in bulk according to IMO instruments	Not applicable	Not applicable	Not applicable

(*) 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:

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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: 04.08.2024

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.

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.

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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;
- SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold;
- 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

H228: Flammable solid.

H252: Self-heating in large quantities; may catch fire.

H261: In contact with water releases flammable gases.

H271: May cause fire or explosion; strong oxidiser.

H272: May intensify fire; oxidiser.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

P102: Keep out of reach of children.

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

P234: Keep only in original packaging.

P280: Wear suitable protective gloves. Protect the face.

P370+P372+P380+P373: In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.

P501: Dispose of contents/container in accordance with national regulation.

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.