



SAFETY DATA SHEET

**Ikaros Parachute Rocket,
White**



IKAROS

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Date issued 23.11.2016

Revision date 23.11.2020

1.1. Product identifier

Product name Ikaros Parachute Rocket, White

Article no. Order number: 340200

Product definition 6,5 g ignition composition, 50 g composite propellant and 100 g white illuminating composition

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

Use of the substance / preparation Pyrotechnic signal rocket.

1.3. Details of the supplier of the safety data sheet

Company name Hansson PyroTech AB

Postal address Köpingsvägen 35

Postcode 711 31

City Lindesberg

Country Sweden

Telephone number +46 58187139

Email info@hansson-pyrotech.com

Website www.hansson-pyrotech.com

1.4. Emergency telephone number

Emergency telephone Telephone number: +46 581 87 147 (Available 24 hours)

Description: Emergency call

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Expl. 1.3; H203
Acute Tox. 4; H302
Eye Irrit. 2; H319

Substance / mixture hazardous
properties

Main health hazard: Pyrotechnic product. Inhalation: May be mildly irritating to the respiratory system. Contact with skin: May be mildly irritating to the skin. Contact with burning product can cause severe burns. Contact with eyes: Causes serious eye irritation. Ingestion: Harmful if swallowed. Fire and explosion hazard: Risk of explosion if the product is exposed to electric shock, friction, fire or other sources of ignition. Environmental hazard: Not classified as dangerous to the environment.

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label

Potassium perchlorate

Signal word

Danger

Hazard statements

H203 Explosive; fire, blast or projection hazard.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. P240 Ground and bond container and receiving equipment. P250 Do not subject to grinding / shock / friction / . P280 Wear protective gloves / protective clothing / eye protection / face protection. P370 + P372 + P380 + P373 In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives. P401 Store in accordance with national regulation. P501 Dispose of contents / container to authorised waste disposal facility.

Other EU labelling requirements

In accordance with Article 23 and marginal 1.3.5 of the CLP, the specific provisions on labelling laid down in section 1.3 of Annex I shall apply in respect of the followings:

(e) explosives, as referred to in section 2.1 of Annex I, placed on the market with a view to obtaining an explosive or pyrotechnic effect.

1.3.5 Explosives placed on the market with a view to obtaining an explosive or pyrotechnic effect.

Explosives, as referred to in section 2.1, placed on the market with a view to obtaining an explosive or pyrotechnic effect shall be labelled and packaged in accordance with the requirements for explosives only.

2.3. Other hazards

Health effect

Contact with burning product can cause severe burns.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Sodium nitrate	CAS No.: 7631-99-4 EC No.: 231-554-3 REACH Reg. No.: 01-2119488221-41	Ox. Sol. 3; H272 Acute tox. 4; H302 Skin Irrit. 2; H319	= 31,37 %	
Potassium perchlorate	CAS No.: 7778-74-7 EC No.: 231-912-9 Index No.: 017-008-00-5 REACH Reg. No.: 01-2120021000-89	Ox. Sol. 1; H271 Acute tox. 4; H302	= 23,32 %	
Potassium nitrate	CAS No.: 7757-79-1 EC No.: 231-818-8 REACH Reg. No.: 01-2119488224-35	Ox. Sol. 3; H272 Aquatic Acute 1; H400	= 3,07 %	
Sulphur	CAS No.: 7704-34-9 EC No.: 231-722-6 Index No.: 016-094-00-1 REACH Reg. No.: 01-2119487295-27	Skin Irrit. 2; H315	= 0,45 %	

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Contaminated work clothing should be washed before using again. Special treatment is urgent (see label on this label).
Inhalation	Move the person to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if symptoms persist.
Skin contact	If burned, rinse with plenty of water for at least 20 minutes. In case of any other contact with skin, wash with soap and water for several minutes.
Eye contact	Hold eyelids open and rinse with soft, lukewarm water or eye wash liquid for at least five minutes. Remove contact lenses. Consult a doctor if symptoms persist.
Ingestion	Get medical advice/attention.

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

Acute symptoms and effects	Contact with burning product can cause severe burns. May cause nausea and vomiting. Harmful if swallowed. Causes serious eye irritation. May be mildly irritating to the skin and respiratory system.
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4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment	None other than the one listed above.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use foam, dry chemical, CO ₂ or mist early in the fire. Once the product is lit up, it is very difficult to extinguish.
Improper extinguishing media	No restrictions.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is an explosion hazard, as it generates large quantities of gas and heat, once lit.
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5.3. Advice for firefighters

Personal protective equipment	Wear full protective clothing for chemical fires, including breathing apparatus. If possible, remove undamaged containers from the danger area. Remove all ignition sources.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Ensure good ventilation. Use appropriate protective equipment, see section 8. Avoid skin and eye contact. Remove all ignition sources.
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6.2. Environmental precautions

Environmental precautionary measures	Prevent discharge into sewers or the local environment/streams. Contact emergency services upon greater emissions.
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6.3. Methods and material for containment and cleaning up

Containment	Collect with tools that do not give rise to ignition.
Clean up	The waste is placed in closed containers and disposed of as hazardous waste in accordance with section 13.

6.4. Reference to other sections

Other instructions	See sections 8 and 13 for information about protection and waste management.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Avoid sparks, shock and friction. Use personal protective equipment, see section 8. Avoid skin and eye contact. Protect the product from sources of ignition.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store cool and dry in a well-ventilated place. Keep away from sources of ignition – no smoking. Keep out of reach of children.
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7.3. Specific end use(s)

Specific use(s)	Signal rocket.
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters comments PNEC/DNEL are not available.

8.2. Exposure controls

Precautionary measures to prevent exposure

Appropriate engineering controls Keep away from fire, sparks and other ignition sources. When cleaning, use equipment that does not cause sparks.

Eye / face protection

Suitable eye protection Shatterproof goggles or visors.

Hand protection

Suitable gloves type Leather gloves or the like.

Skin protection

Skin protection remark Change work clothing daily if there is any possibility of contamination.

Respiratory protection

Recommended type of equipment Particle filter EN143 Type P or EN149 type FFP-S.

Hygiene / environmental

Personal protection equipment, comments Contact your protective equipment supplier for more information.

Specific hygiene measures No smoking.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Red plastic tube with white plastic lid and orange label.

Colour See under "Physical state".

Odour None.

pH Status: In delivery state
Comments: No information available.

Status: In aqueous solution
Comments: No information available.

Melting point / melting range Comments: No information available.

Boiling point / boiling range Comments: No information available.

Flash point Comments: No information available.

Evaporation rate Comments: No information available.

Flammability	The contents are flammable.
Explosion limit	Comments: No information available.
Vapour pressure	Comments: No information available.
Vapour density	Comments: No information available.
Relative density	Comments: No information available.
Solubility	Comments: Insoluble in water.
Auto-ignition temperature	Value: > 250 °C Method: Ignition temperature
Viscosity	Comments: No information available.
Explosive properties	The product is explosive.
Oxidising properties	Content is oxidizing.

9.2. Other information

Other physical and chemical properties

Comments	These are typical values and do not constitute an exact product specification.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable product under recommended storage and handling conditions.
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10.2. Chemical stability

Stability	Stable product under recommended storage and handling conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Stable product under recommended storage and handling conditions.
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10.4. Conditions to avoid

Conditions to avoid	Avoids temperatures above 75°C.
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10.5. Incompatible materials

Materials to avoid	Not applicable.
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10.6. Hazardous decomposition products

Hazardous decomposition products	The product is explosive, generating large quantities of gas and heat once ignited.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance	Sodium nitrate
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Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: = 1267 mg/kg Animal test species: Rat Comments: Harmful if swallowed.
Substance	Potassium nitrate
Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: = 3750 mg/kg Animal test species: Rat
Substance	Sulphur
Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: > 3000 mg/kg Animal test species: Rat Comments: Not hazardous if swallowed. Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 2000 mg/kg Animal test species: Rabbit Comments: Not hazardous in case of skin contact.
Other toxicological data	No data available for the product itself. The data below is based on individual ingredients of the product.

Other information regarding health hazards

General respiratory or skin sensitisation	No known sensitizing effect.
Inhalation	May be mildly irritating to the respiratory system.
Skin contact	May be mildly irritating to the skin.
Eye contact	Causes serious eye irritation.
Ingestion	May cause nausea and vomiting.
Germ cell mutagenicity, human experience	No known mutagenicity.
Carcinogenicity, other information	No known carcinogenicity.
Reproductive toxicity	No known reproductive toxicity.

Symptoms of exposure

In case of ingestion	Harmful if swallowed. May cause irritation of the gastrointestinal tract with nausea and vomiting as a result.
In case of skin contact	May be mildly irritating to the skin.
In case of inhalation	May be mildly irritating to the respiratory system.

In case of eye contact Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Sodium nitrate
Aquatic toxicity, fish	Value: = 994 mg/l Test duration: 96h Species: Oncorhynchus tshawytscha Method: LC50 Comments: Not hazardous to aquatic organisms.
Substance	Potassium perchlorate
Aquatic toxicity, fish	Value: = 2511 mg/l Test duration: 96h Method: LC50 Comments: Not hazardous to aquatic organisms.
Substance	Sulphur
Aquatic toxicity, fish	Value: = 866 mg/l Test duration: 96h Species: Brachydanio rerio Method: LC50 Comments: Not hazardous to aquatic organisms.
Substance	Potassium nitrate
Aquatic toxicity, algae	Value: = 0,14 mg/l Test duration: 72h Method: IC50 Comments: Very toxic to aquatic organisms.
Substance	Sodium nitrate
Aquatic toxicity, crustacean	Value: = 575,9 mg/l Test duration: 48h Method: EC50 Comments: Not hazardous to aquatic organisms.
Substance	Sulphur
Aquatic toxicity, crustacean	Value: > 5000 mg/l Test duration: 48h Species: D.magna Method: EC50 Comments: Not hazardous to aquatic organisms.
Ecotoxicity	Product has not been tested. The data below is based on individual ingredients of the product.

12.2. Persistence and degradability

Persistence and degradability description/evaluation Not applicable – contains inorganic materials and is in form of solid article.

12.3. Bioaccumulative potential

Bioaccumulation, comments No bioaccumulation expected.

12.4. Mobility in soil

Mobility None – product in form of solid article.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Additional ecological information Not classified as toxic to water (the IMDG-code).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical Waste should be kept in separate container. NO SMOKING! Unused product is hazardous waste and must be disposed of in accordance with national and local regulations. Contact approved waste disposal service to dispose of this material.

Appropriate methods of disposal for the contaminated packaging Used product treated as ordinary plastic / metallic waste. DO NOT TRY TO DISASSEMBLE UNUSED PRODUCT! Contaminated packaging may pose a fire hazard.

EWC waste code EWC waste code: 160402 fireworks wastes
Classified as hazardous waste: Yes

Other information Contaminated packing may burn rapidly.

SECTION 14: Transport information

Dangerous goods Yes

14.1. UN number

ADR/RID/ADN 0195

IMDG 0195

ICAO/IATA 0195

Comments Article Number: 340200
UN-number: 0195 Signals, distress
Packaging in cardboard : 1.3G (not USA).
Packaging instructions: P135

14.2. UN proper shipping name

Proper shipping name English SIGNALS, DISTRESS
ADR/RID/ADN

ADR/RID/ADN SIGNALS, DISTRESS

IMDG SIGNALS, DISTRESS

ICAO/IATA	SIGNALS, DISTRESS
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14.3. Transport hazard class(es)

ADR/RID/ADN	1.3G
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Classification code ADR/RID/ADN	1.3G
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IMDG	1.3G
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ICAO/IATA	1.3G
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14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

Special safety precautions for user See P-statements in Section 2.2.

14.7. Maritime transport in bulk according to IMO instruments

Product name	SIGNALS, DISTRESS
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Additional information

Hazard label ADR/RID/ADN	1.3G
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Hazard label IMDG	1.3G
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Hazard label ICAO/IATA	1.3G
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ADR/RID Other information

Tunnel restriction code	C5000D
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Transport category	1
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IMDG Other information

EmS	F-B, S-X
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SECTION 15: Regulatory information

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

Legislation and regulations	Safety data sheet and classification in accordance with regulation 1272/2008 /EC (CLP) and regulation 830/2015/EC.
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15.2. Chemical safety assessment

Chemical safety assessment performed	Yes
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Chemical safety assessment	Chemical safety investigation (CSI) is established for the product.
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SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H203 Explosive; fire, blast or projection hazard. H271 May cause fire or explosion; strong oxidiser. H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.
CLP classification, comments	Classification and labelling are based on CLP (Regulation 1272/2008/EC and Regulation 830/2015/EC)
Last update date	23.11.2020
Version	6