

**SAFETY DATA SHEET**

Hansson PyroTech

**Ikaros Handflare, White**

Hansson PyroTech

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 22.11.2016

Revision date 24.11.2017

**1.1. Product identifier**

Product name Ikaros Handflare, White

Article no. 341600

Product definition 2 g ignition composition, 75 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 flare.

**1.3. Details of the supplier of the safety data sheet**

Company name Hansson Pyrotech AB

Postal address Köpingsvägen

Postcode 711 31

City Lindesberg

Country Sverige

Telephone number +46 58187139

Email [info@hansson-pyrotech.com](mailto:info@hansson-pyrotech.com)

Website [www.hansson-pyrotech.com](http://www.hansson-pyrotech.com)

**1.4. Emergency telephone number**

Emergency telephone Telephone number: +46 581 87 111 (Available 24 hours)  
Description: Emergency call

Identification, comments Ask for officer on duty at Nammo LIAB AB.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

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

Expl. 1.4; H204  
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: May cause nausea and vomiting. 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

Sodium nitrate = 22,97 %

Signal word

Warning

Hazard statements

H204 Fire 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 container. P240 Ground / 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. P370+P380+P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

Special supplemental label information mixtures

Contains: Sodium nitrate. .

## 2.3. Other hazards

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Sodium nitrate	CAS No.: 7631-99-4	Ox. Sol. 3; H272	= 22,97 %	
	EC No.: 231-554-3	Acute tox. 4; H302		
	REACH Reg. No.: 01-2119488221-41	Skin Irrit. 2; H319		
Potassium nitrate	CAS No.: 7757-79-1	Ox. Sol. 3; H272	= 21,13 %	
	EC No.: 231-818-8	Aquatic Acute 1; H400		
	REACH Reg. No.: 01-2119488224-35			

## 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. 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, CO2 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

Clean up	Damaged product and waste should be handled and destroyed by experts!
Other information	See Sections 8 & 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)	Handflare.
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## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Other Information about threshold limit values	No exposure limits.
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.
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#### Eye / face protection

Eye protection	Shatterproof goggles or visors.
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#### Hand protection

Skin- / hand protection, short term contact	Wear gloves when working with the product.
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#### Respiratory protection

Recommended type of equipment	Particle filter EN143 Type P or EN149 type FFP-S.
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#### 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	Black metal tube with white plastic handle, black plastic top 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 (solid, gas)	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.
Spontaneous combustibility	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. Also emits large quantities of orange smoke.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Substance	Sodium nitrate
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Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> = 1267 mg/kg <b>Animal test species:</b> Rat <b>Comments:</b> Harmful if swallowed.
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Substance	Potassium nitrate
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Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> = 3750 mg/kg <b>Animal test species:</b> Rat
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Other toxicological data	No data available for the product itself. The data below is based on individual ingredients of the product.
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### Other information regarding health hazards

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

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Sodium nitrate
Aquatic toxicity, fish	<b>Value:</b> = 994 mg/l <b>Test duration:</b> 96h <b>Species:</b> Oncorhynchus tshawytscha <b>Method:</b> LC50 <b>Comments:</b> Not hazardous to aquatic organisms.
Substance	Potassium nitrate
Aquatic toxicity, algae	<b>Value:</b> = 0,14 mg/l <b>Test duration:</b> 72h <b>Method:</b> IC50 <b>Comments:</b> Very toxic to aquatic organisms.
Substance	Sodium nitrate
Aquatic toxicity, crustacean	<b>Value:</b> = 575,9 mg/l <b>Test duration:</b> 48h <b>Method:</b> EC50 <b>Comments:</b> 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, comments Not applicable. Contains inorganic materials and is in solid form.

### 12.3. Bioaccumulative potential

Bioaccumulative potential Not expected to bioaccumulate.

### 12.4. Mobility in soil

Mobility None – product in form of solid article.

### 12.5. Results of PBT and vPvB assessment

PBT assessment results Does not fulfil the criteria for classification as PBT.  
vPvB evaluation results Does not fulfil the criteria for classification pub.

### 12.6. Other adverse effects

Environmental details, summation Not classified as toxic to water (the IMDG-code).

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Waste should be collected in a separate container. NO SMOKING!
Relevant waste regulation	Waste regulation, SFS 2011:927.
Hazardous waste product	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.
Hazardous waste packing	Used product treated as ordinary plastic / metallic waste. DO NOT TRY TO DISASSEMBLE UNUSED PRODUCT! Contaminated packaging may pose a fire hazard.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 160402 fireworks wastes
Other information	Contaminated packing may burn rapidly.

## SECTION 14: Transport information

### 14.1. UN number

ADR/RID/ADN	0191
IMDG	0191
ICAO/IATA	0191
Comments	Article Number: 341500

### 14.2. UN proper shipping name

ADR/RID/ADN	SIGNAL DEVICES, HAND
IMDG	SIGNAL DEVICES, HAND
ICAO/IATA	SIGNAL DEVICES, HAND

### 14.3. Transport hazard class(es)

ADR/RID/ADN	1.4G
Classification code ADR/RID/ADN	1.4 G
Subsidiary risk ADR/RID/ADN	1.4 G
IMDG	1.4G
Classification code IMDG	1.4 G
ICAO/IATA	1.4G
Classification code ICAO	1.4 G

### 14.4. Packing group

### 14.5. Environmental hazards

IMDG Marine pollutant	No
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## 14.6. Special precautions for user

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

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

### Additional information

Additional information UN-number: 0191 Signal devices, hand. Packaging in cardboard 1.4G.  
Packaging instructions: P135.  
Order article number: 341600

### IMDG Other information

IMDG Other information Swedish Rescue Service Agency Cert. No.: 2015-3834 (13)  
EX-nr (DOT/USA): EX2006030025

EmS F-B, S-X

## 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.

### 15.2. Chemical safety assessment

Chemical safety assessment performed Yes

Chemical safety assessment Chemical safety investigation (CSI) is established for the product.

## SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3) H204 Fire or projection hazard.  
H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] Expl. 1.4; H204  
Eye Irrit. 2; H319

CLP classification, comments Classification and labelling are based on CLP (Regulation 1272/2008/EC and Regulation 830/2015/EC)

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