



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product Name Strungbound 450, 225, 115
CAS No. Article.
EC No. Article.
REACH Registration No. None assigned.

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

Identified Use(s) Pyrotechnic Special Effects. For use by persons with specialist knowledge only.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification Event Horizon Pyrotechnics Ltd
Address of Manufacturer The Old Brewery
Stagman Lane
Ashcott
Somerset
Postal code TA7 9QW
Telephone +44(0)1458 210280
Fax None.
E-mail info@precisionenergetics.co.uk

1.4 Emergency telephone number

Emergency Phone No. +44(0)1458 210280
Contact Event Horizon Pyrotechnics Ltd
National response center
Address National Poisons Information Service (Birmingham Centre)
City Hospital
Dudley Road,
Birmingham,
United Kingdom
Emergency Phone No. +00 448 706 006 266 NHS Direct - 0845 4647 or 111

2. SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Expl. 1.4 :Fire or projection hazard.

2.2 Label elements

Product Name According to Regulation (EC) No. 1272/2008 (CLP)
Strungbound 450, 225, 115

Hazard Pictogram(s)



Signal Word(s) GHS01
Warning.
Hazard Statement(s) H204: Fire or projection hazard.
Precautionary Statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240: Ground and bond container and receiving equipment.
P250: Do not subject to grinding/shock/friction.



Additional Information

P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P370+P380+P375: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
P501: Dispose of contents in accordance with local, state or national legislation.

Explosive Product Notice

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.

2.3 Other hazards

None known.

2.4 Additional Information

WARNING - Use following consideration of the User Instructions. All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Article.

Pyrotechnic article with hazardous components are black powder and an electric igniter.

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Potassium nitrate	7757-79-1	231-818-8 01-2119488224-35-XXXX	40-85	Ox. Sol. 3 H272	GHS03
Sulphur	7704-34-9	231-722-6 01-2119455044-46-XXXX	6-27	Skin Irrit. 2 H315	GHS07

4. SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation Unlikely route of exposure.
Skin Contact Wash hands and exposed skin after use.
Eye Contact Flush eyes with water for at least 15 minutes.
Ingestion Unlikely route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.



5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media Extinguish preferably with dry chemical, alcohol foam or waterspray.
Unsuitable extinguishing media None known.

5.2 Special hazards arising from the substance or mixture

Fire or projection hazard. Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulphur oxides.

5.3 Advice for firefighters

Evacuate area. DO NOT fight fire when fire reaches explosives. Fight fire remotely with normal precautions due to the risk of explosion. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

It is unlikely to present spillage or leakage hazard. Anticipated release would only be from a damaged device.

6.1 Personal precautions, protective equipment and emergency procedures

Use non-sparking tools. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up

Consult the supplier for safe disposal of spillage waste and for decontamination of spillage area.

6.4 Reference to other sections

See Also Section 8, 13

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding/shock/friction. Store in accordance with local regulations. Ground and bond equipment and your person. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

7.2 Conditions for safe storage, including any incompatibilities

In accordance with local regulations. Do not store improperly with other explosives (severe physical injury or death may occur from detonation).

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

Acids, Alkalis.

7.3 Specific end use(s)

Pyrotechnic Special Effects. For use by persons with specialist knowledge only.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

8.2.2. Personal protection equipment

Eye Protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection

Wear fire resistant or flame retardant clothing.





Respiratory protection No personal respiratory protective equipment normally required.
Damaged device: A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.



Thermal hazards Not applicable.

Additional Information

Ear protection: Noise attenuating headset or ear plugs.

8.2.3. Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Article. Black, string wound cylinder, containing black powder and an electric igniter. Colour : Black (Powder.)
Odour	Odourless.
Odour threshold	Not established.
pH	Black powder: Neutral.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash Point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Density (g/ml)	Black powder: 0.5-1.2 g/cm ³
Relative density	Black powder: 1.0-1.9 g/cm ³
Solubility(ies)	Solubility (Water) : 315 g/dm ³ (Potassium nitrate). Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature (°C)	Black powder: 290-360° C
Viscosity	Not applicable.
Explosive properties	Fire or projection hazard.
Oxidising properties	Oxidising (Potassium nitrate).

9.2 Other information

None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Avoid friction, sparks, or other means of ignition.

10.5 Incompatible materials

Acids, Alkalis.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity Low acute toxicity.



Skin corrosion/irritation	Non-irritant.
Serious eye damage/irritation	Non-irritant.
Skin sensitization data	It is not a skin sensitiser.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	None anticipated.
11.2 Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and Degradation

Not applicable.

12.3 Bioaccumulative potential

Not applicable.

12.4 Mobility in soil

Article: Insoluble in water.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse effects

None.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of this material and its container to an approved waste disposal plant.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 0431

14.2 UN proper shipping name

UN proper shipping name ARTICLES, PYROTECHNIC, FOR TECHNICAL PURPOSES

14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class 1

ADR Classification Code 1.4G

Excepted Quantities E0

Mixed Packing Instructions for Packages P135

Mixed Packing Instructions for Packages MP23 MP24



ADR Transport Category	2
Tunnel Restriction Code	E
Special Provisions for Carriage - Packages	V2
Special Provisions for Carriage - Loading, Unloading and Handling	CV1 CV2 CV3
Special Provisions for Carriage - Operation	S1
IMDG	
IMDG Class	1.4G
Excepted Quantities	E0
Mixed Packing Instructions for Packages	P135
IMDG EMS	F-B, S-X
Stowage and Handling	Category 02 SW1
ICAO/IATA	
IATA Proper Shipping Name	ARTICLES, PYROTECHNIC
Excepted Quantities	E0
Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Forbidden for transport by air.
Passenger and Cargo Aircraft Limited Quantities Max net Qty	Forbidden for transport by air.
Passenger and Cargo Aircraft Packing Instructions	Forbidden for transport by air.
Passenger and Cargo Aircraft Max net Qty	Forbidden for transport by air.
Cargo Aircraft Packing Instructions	135
Cargo Aircraft Max net Qty	75Kg
Special Provisions	A802
Emergency Response Guidebook (ERG) Code	1L
Labels	
Labels	1.4
14.4 Packing group	
Packing group	1.4G
14.5 Environmental hazards	
Environmental hazards	Not classified as a Marine Pollutant.
14.6 Special precautions for user	
Special precautions for user	Not known.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
	No information available

15. SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed.

REACH: ANNEX XIV list of substances subject to authorisation Not listed.

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not listed.

Community Rolling Action Plan (CoRAP) Not listed.

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Not listed.

Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer Not listed.

Regulation (EU) N° 649/2012 of the

Not listed.



European Parliament and of the Council
concerning the export and import of
hazardous chemicals

National regulations

Other Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16

LEGEND

Hazard Pictogram(s)



GHS01

GHS03: GHS: flame over circle
GHS07: GHS: exclamation mark

Hazard classification

Ox. Sol. 3 : Oxidising solid, Category 3
Skin Irrit. 2 : Skin corrosion/irritation, Category 2

Hazard Statement(s)

H204: Fire or projection hazard.
H272: May intensify fire; oxidiser.
H315: Causes skin irritation.

Precautionary Statement(s)

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/hearing 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.
P401: Store products enclosed, in original packing.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL : Derived No Effect Level
EC : European Community
EINECS : European Inventory of Existing Commercial Chemical Substances
IATA : International Air Transport Association
IBC : Intermediate Bulk Container
ICAO : International Civil Aviation Organization



IMDG : International Maritime Dangerous Goods
LTEL : Long term exposure limit
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
UN : United Nations
vPvB : very Persistent and very Bioaccumulative

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