

PRODUCT INFORMATION

Trade Name: Brandax VS

Identified Uses: Smoke for airflow studies, leakage test.

Manufacturer/Supplier information

Company: BJÖRNAX AB
STRÅSSA FÖRETAGSBY
S-711 77 STRÅSSA SWEDEN
Telephone: 0046 581 43150
Email: webmaster@bjornax.se

Supplier: FireSense Pty Ltd, 18-20 Brookhollow Avenue, Norwest, NSW 2153, Tel – 02 8850 2888

Revision Status:

New Material Safety Data Sheet 11-02-2019



COMPOSITION

Material	EG-No.	CAS No.	Content %	Symbols	R-phrases
Potassium Chlorate	223-289-7	3811-04-9	29	Xn, O, N	R9-20/22-51/53
Ammonium Chloride	235-186-4	12125-02-9	28	Zn, Xi	R22-36

HAZARD IDENTIFICATION

Cartridge in solid form: Harmful and oxidizing

Special Risks: Explosive when mixed with combustible material, harmful by inhalation and if swallowed.

Generated Smoke: Prolonged exposure or misuse can cause irritation, either by inhalation or to the eyes.

FIRST AID MEASURES

Bring this safety data sheet when seeking medical advice.

Cartridge in solid form:

Ingestion	Not applicable under normal use. If parts or complete product has been swallowed, give milk or water, do not induce vomiting, seek medical advice.
Skin Contact	Not applicable at normal use. If product has broken and skin has been contaminated wash with soap and water.
Eye Contact	Not applicable at normal use. If product has broken and eyes have been contaminated, rinse immediately with plenty of water and seek medical advice.

Smoke:

Inhalation	Fresh air, at remaining problems seek medical advice.
Skin Contact	Wash with soap and water.
Eye Contact	At remaining irritation rinse eyes with water for 5 minutes.

FIRE FIGHTING MEASURES

Suitable fire fighting media: Water

Safety equipment for fire fighters: Normal protection equipment.

Unusual fire hazards: None specific.

ACCIDENTAL RELEASE MEASURES

Personal: None specific

Environmentally: Unused product may not be released in drainage or natural water systems.

Contamination cleanup: Collect separately, and keep dry.

HANDLING AND STORAGE

Precautions for Use	In general normal handling of pyrotechnic products, always make sure to place product on a non-inflammable base, dispose completely burnt product with due care and attention.
Storage	Keep away from food, drink and animals. Store dry and keep away from sources of ignition.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Breathing Protection	At improper ventilation use a particle filter mask class P2. All kinds of generated smoke consists of solid or liquid particles. It is recommended to use a particle mask in smoke filled rooms.
Hygienic levels, particles/m ³ in surrounding air	See national exposure limits.
Hygiene	Wash hands before eating.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	PP sheath with hard pressed white powder
Odour	Minimal
Ignition Point	200°C

STABILITY & REACTIVITY

Cartridge	Stable at recommended storage
Smoke	Stable in normal conditions

TOXICOLOGICAL INFORMATION

General information:

The complete product has not been toxicological tested. No personal hazard is anticipated provided that the product is handled and used with due care and attention.

Ingoing hazardous chemicals:

The following applies for ingoing hazardous chemicals in pure and concentrated form.

Potassium Chlorate: LD₅₀ Oral rat: 1870mg/kg bodyweight. Dermal ,rabbit LD₀ >2000mg/kg.

Ammonium chloride: LD₅₀ Oral rat: 1400mg/kg bodyweight.

ECO-TOXICOLOGICAL INFORMATION

General information:

The complete product has not been eco-toxicological tested. No environmental hazard is anticipated provided that the product is handled and disposed of with due care and attention.

Ingoing hazardous chemicals:

The following apply for ingoing hazardous chemicals in pure and concentrated form.

Potassium Chlorate: LC₅₀ Fish 96h: 1750mg/1000mL, Oncorhynchus mykiss. EC₅₀ Daphnia 48h: 599mg/1000mL, D.Magna. IC₅₀ Algae 72h: 0,077mg/1000mL. (R 53. Source N-CLASS Database)

Ammonium chloride: LC₅₀ Fish 96h: 0,21mg/1000mL. EC₅₀ Daphnia 48h: 0,96mg/1000mL. IC₅₀ Algae 72h: 0,025mg/1000mL.

DISPOSAL CONSIDERATIONS

Used product	Residue after complete combustion may be disposed with household waste, always make sure that product is completely turned out.
Un-used or broken product	National: Shall be disposed according to: SFS 2001:1063. EWC-cod 16 03 04 Europe: Shall be disposed according to EWC-cod 16 03 04

TRANSPORT INFORMATION

Product is not classified as dangerous goods acc, to: ADR / RID / IMO / DGD.

Tests are performed according to:

UN	Recommendations Transport Of Dangerous Goods, Model Regulations.
UN	Recommendations Transport Of Dangerous Goods Test and Criteria.

REGULATORY INFORMATION



R and S-Phrases is only complying for ingoing ingredients in the product and not for generated smoke, gas analysis on request, product contain potassium chlorate and ammonium chloride.

Risk Phrase	R9 – Explosive when mixed with combustible material R20/22 – Harmful by inhalation and if swallowed. R22 – Harmful if swallowed. R36 – Irritating to eyes. R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safe Phrases	S13 – Keep away from food, drink and animals S25 – Avoid contact with eyes. S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S38 – In case of insufficient ventilation wear suitable respiratory equipment. S61 – Avoid release to the environment.