

PRODUCT INFORMATION

Trade Name: Smoke Pen, refill

Identified Uses: Smoke for leakage tests and air flow studies

Manufacturer / Supplier information

Company: BJÖRNAX AB
Ringshyttan, Gruvstugan 729
71393 Nora Sweden

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

Revision Status:

New Material Safety Data Sheet 05-12-2017, Version 4.0

Indication of where changes have been made to the previous version of the safety data sheet

Revisions of this document

Earlier versions: 26-08-2015

Revisions of this document has, where not otherwise stated, been caused by changes in the regulations.

COMPOSITION

Material	EG-No.	CAS No.	Content %
Cotton	N/A	N/A	80-100
Stearic Acid	200-313-4	57-11-4	6-10

HAZARD IDENTIFICATION

Classification of the substance or mixture:

Upon assessment, this mixture is not classified as hazardous according to 1272/2008.

Hazard Pictogram: Not applicable

Signal Word: Not applicable

Hazard Statement: Not applicable

Other Hazards: Not indicated

FIRST AID MEASURES

Generally	No special measures are considered to be necessary. If symptoms do occur, call a doctor/physician
Inhalation	Inhalation of chemicals from the product in normal use is not appropriate. For generated smoke: In the case of overexposure to generated smoke, move the affected person to fresh air. If symptoms persist, consult a doctor.

Skin contact	Normal washing of the skin is considered sufficient; if symptoms do occur, contact a doctor. Remove contaminated clothes
Ingestion	No special measures should be necessary; to be on the safe side, induce vomiting and contact a doctor.
Eye contact	Eye contact with chemicals from the product in normal use is not appropriate. For generated smoke: If symptoms occur, flush with lukewarm water with the eye or eyes wide open. If symptoms persist, consult a doctor. In the case of a broken or tampered product, the procedure for the constituent chemicals is as follows: Flush immediately with lukewarm water for 15 - 20 min with the eye or eyes wide open. If symptoms persist, consult a doctor.
Most important symptoms and effects, both acute and delayed	No further information available.
Indication of any immediate medical attention and special treatment needed:	Symptomatic treatment.

FIRE FIGHTING MEASURES

Extinguishing Media: Extinguish with water

Special hazards arising from the substance or mixture: Combustible solid. Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

Advice for firefighters: In case of fire, use a respirator mask

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: No special equipment is necessary

Environmental precautions: No specific measures need to be taken in the event of normal use.

Methods and material for containment and cleaning up: Collect.

HANDLING AND STORAGE

Precautions for Use	No special measures are required.
Storage	Store only in the original package. Store in a dry place not above normal room temperature.

EXPOSURE CONTROLS/PERSONAL PROTECTION

National limit values	All ingredients lack occupational exposure limit values
PNECs and DNELs	Not established
Exposure controls	In terms of minimizing risks, no special attention is needed for this product besides the general obligations that follow EU directive 89/391 and national occupational legislation.
Appropriate engineering controls	Maintenance and service of personal protective equipment shall be included in the works plan for internal supervision. All inspections and remedial measures shall be documented.
Eye/face protection	Not relevant
Skin protection	Normal working clothes of cotton or synthetic material should be adequate. Clothing contaminated with this product should be washed immediately; avoid contact with the skin. Protective gloves are normally not needed due to the properties of this product, but may be necessary for other reasons, e.g mechanical risks, temperature conditions or microbiological risks.

Respiratory protection	Protective breathing equipment should only be required in extreme work situations. Consult the manufacturer if this is the case. Dust filter may be required.
Environmental exposure controls	No specific measures needed

PHYSICAL & CHEMICAL PROPERTIES

Colour	Beige
Odour	Odourless, or almost odourless
Odour threshold	Not indicated
pH	Not indicated
Melting/freezing point	Not indicated
Initial boiling point/range	Not indicated
Flash point	>165°C
Evaporation rate	Not indicated
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not indicated
Vapour pressure	Not indicated
Vapour density	Not indicated
Relative density	Not determined
Solubilities	Solubility in water: insoluble
Partition coefficient (n-octano/water)	Not applicable
Auto-ignition temperature	Not indicated
Decomposition temperature	Not indicated
Viscosity	Not indicated
Explosive properties	Not applicable
Oxidising properties	Not applicable

STABILITY & REACTIVITY

Reactivity	The product contains no substances which can lead to hazardous reactions at normal use
Chemical stability	Stable under normal storage and handling conditions
Possibility of hazardous reactions	No hazardous reactions known is used for its intended purpose
Conditions to avoid	None anticipated
Incompatible materials	None anticipated
Hazardous decomposition products	No hazardous decomposition products known, under normal conditions

TOXICOLOGICAL INFORMATION

Information on toxicological effects	This product is not classified as toxic
Acute toxicity	The criteria for classification cannot be considered fulfilled based on available data

Stearic acid	LD50 rat 24h: > 5000 mg/kg orally
Skin corrosion/irritation	The criteria for classification cannot be considered fulfilled based on available data
Serious eye damage/irritation	The criteria for classification cannot be considered fulfilled based on available data
Respiratory or skin sensitisation	The criteria for classification cannot be considered fulfilled based on available data
Germ cell mutagenicity	The criteria for classification cannot be considered fulfilled based on available data
Carcinogenicity	The criteria for classification cannot be considered fulfilled based on available data
Reproductive toxicity	The criteria for classification cannot be considered fulfilled based on available data
STOT-single exposure	The criteria for classification cannot be considered fulfilled based on available data
STOT-repeated exposure	The criteria for classification cannot be considered fulfilled based on available data
Aspiration hazard	The criteria for classification cannot be considered fulfilled based on available data

ECOLOGICAL INFORMATION

Toxicity	No ecological damage is known or expected in the event of normal use
Persistence and degradability	The product degrades in the natural environment
Bio-accumulative Potential	Neither this product, nor its contents, accumulates in nature
Mobility in soil	No information about mobility in the nature exists but there is no reason to suppose the product to be ecologically harmful because of this
Results of PBT and vPvB assessment	No chemical safety report has been executed
Other adverse effects	This product degrades rapidly but large emission within a short period of time may be harmful to the local environment

DISPOSAL CONSIDERATIONS

Waste handling of the product: The product is not classified as hazardous waste. This product is not usually recycled. Combustion is a suitable method for final disposal of this waste product. Also take local regulations for dealing with waste into account.

TRANSPORT INFORMATION

Not classified as dangerous for transport.

REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: Not indicated.

Chemical safety assessment: Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.