# SAFETY DATA SHEET

In accordance with 453/2010 and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

Issued 2013-10-07

Replaces issued SDS 2012-06-01



# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Trade name

#### SMOKE PEN, REFILL

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

**Identified uses** 

Smoke for leakage tests and air flow studies

1.3. Details of the supplier of the safety data sheet

Company

BJÖRNAX AB

STRÅSSA FÖRETAGSBY

SE-71177 STRÅSSA

Sweden

**Telephone** 

+46 581 43150

E-Mail

info@bjornax.se

#### 1.4. Emergency telephone number

In case of emergency contact toxicological information, emergency tel 112 (within Europe) or 911 (for USA and Canada). For other countries, use the built-in emergency number in your cell phone

For non-emergency poison information, see http://www.who.int/ipcs/poisons/centre/directory/euro/en/

# SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

#### Classification in accordance with 1272/2008

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

#### Classification in accordance with 1999/45/EG

This product is assessed and not classified as hazardous.

#### 2.2. Label elements

#### Label information in accordance with 1272/2008

Hazard pictograms

Not applicable

Signal words

Not applicable

Hazard statements

Not applicable

#### Label information in accordance with 1999/45/EG

See section 16.

#### 2.3. Other hazards

The product produces smoke which can cause irritation upon contact with the eyes or inhalation under conditions of long periods of exposure or incorrect use. In case of uncertainty about how the product should be used, please contact the manufacturer or the company from which the product was originally purchased.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is composed of a mixture of several solid substances.

#### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in a pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent		Classification	Concentration	
CELLULOSE				
CAS No	9004-34-6	-	80 - 100%	
EC No	232-674-9	<u>;</u> -		
STEARIC ACID				
CAS No	57-11-4	-	6 - 10%	
EC No	200-313-4	; -		

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complement used in the calculation of the hazards of this mixture, see Section 16b

## SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

#### Generally

No special measures are considered to be necessary. If symptoms do occur however, call a doctor/physician.

#### Upon breathing in

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.

#### Upon contact with the eyes

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.

#### Upon skin contact

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

Remove contaminated clothes.

#### **Upon ingestion**

No specific action is considered to be needed; As a precaution, induce vomiting and call a doctor/physician.

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

Information on symptoms are ambiguous or missing for this product.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

# SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

Extinguish with water.

#### 5.2. Special hazards arising from the substance or mixture

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.

Combustible solid.

#### 5.3. Advice for fire-fighters

In case of fire use a respirator mask.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Not applicable

#### 6.2. Environmental precautions

Not applicable

#### 6.3. Methods and material for containment and cleaning up

Contaminated products should be treated as chemical waste and declared as non-hazardous goods.

#### 6.4. Reference to other sections

Not applicable

## SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Not applicable

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in a dry place not above normal room temperature.

Store only in the original package.

#### 7.3. Specific end uses

Not relevant.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

#### 8.1.1. National limit values, United Kingdom

All ingredients (cf. Section 3) lack occupational exposure limit values.

#### 8.2. 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.

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. Very sensitive persons can use gloves labelled "Low Chemical resistant" or "Waterproof" or with the pictogram indicated here.

Protective breathing equipment should only be required in extreme work-situations. Consult the manufacturer if this is the case. Dust filter IIb (P2) may be required.

For limitation of environmental exposure, see Section 12.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

a) Appearance	State of aggregation: Solid substance or solid mixture	
	Colour: beige	
b) Odour	Odourless or almost odourless	
c) Odour threshold	Not applicable	

c) Odour threshold

d) pH

Not applicable

> 165°C

h) Evaporation rate
i) Flammability (solid, gas)
j) Upper/lower flammability or explosive limits
k) Vapour pressure
Not applicable
Not applicable

k) Vapour pressure
 l) Vapour density
 m) Relative density
 Not applicable
 Not applicable

n) Solubility Solubility in water Insoluble(<0.001%)

o) Partition coefficient; n-octanol/water Not applicable
p) Auto-ignition temperature Not applicable
q) Decomposition temperature Not applicable
r) Viscosity Not applicable
s) Explosive properties Not applicable
t) Oxidising properties Not applicable

#### 9.2. Other information

No data available

# SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

#### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions known.

#### 10.4. Conditions to avoid

Not indicated

#### 10.5. Incompatible materials

Not indicated

#### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

#### General or unspecific toxicity

The product is not classified as toxic.

#### **Acute effects**

Not classified as an acutely toxic substance.

#### Harmfulness

The product is not classified as harmful to health.

#### Repeated dose toxicity

To the best of our knowledge, no chronic effects have been reported for this product.

#### Carcinogenicity

To the best of our knowledge, no carcinogenic effects have been reported for this product.

#### **CMR** effects

To the best of our knowledge, no mutagenic or otherwise genetic or reproductive toxic effects have been reported for this product.

#### Sensibilisation

Hypersensitive reactions cannot be ruled out for persons who are overtly sensitive.

#### Corrosive and irritating effects

The product is not corrosive. Minor irritation cannot be ruled out for persons who are prone/susceptible.

#### Synergism and antagonism

To the best of our knowledge, no synergistic effects have been reported for this product or any of its ingredients.

#### Effect on judgement and other psychological effects

To the best of our knowledge this product does not affect discernment if used in the manner intended.

#### Effect on human microflora

Effects on human micro flora have not been proven, or are negligible.

#### Relevant toxicological properties

STEARIC ACID

LD50 rat 24h > 5000 mg/kg

# **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

Not applicable

#### 12.2. Persistence and degradability

The product degrades in the natural environment.

#### 12.3. Bioaccumulative potential

Neither this product, nor its contents, accumulates in nature.

#### 12.4. 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.

#### 12.5. Results of PBT and vPvB assessment

No chemical safety report has been executed.

#### 12.6. Other adverse effects

Not indicated

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

#### Waste handling for the product

The product is not classified as hazardous waste.

Also take local regulations for dealing with waste into account.

Cf. also national waste regulations.

#### Recycling of the product

This product is not usually recycled.

#### Transportation of waste

Waste class J(0) - Does not have adverse effects on health or the environment.

# **SECTION 14: TRANSPORT INFORMATION**

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

#### 14.1. UN number

Not classified as dangerous goods

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

#### 14.8 Other transport information

Stowage category not indicated.

Emergency Schedule (EmS) for FIRE (IMDG) Not indicated.

Emergency Schedule (EmS) for SPILLAGE (IMDG) Not indicated.

# SECTION 15: REGULATORY INFORMATION

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Not applicable.

#### 15.2. Chemical safety assessment

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

# **SECTION 16: OTHER INFORMATION**

# 16a. Indication of where changes have been made to the previous version of the safety data sheet Revisions of this document

**Earlier versions** 

2012-06-01 Revisions of this document has, where not otherwise stated, been caused by changes in the regulations

#### 16b. Legend to abbreviations and acronyms used in the safety data sheet

#### Full texts for Hazard Class and Category Code mentioned in section 3

No phys haz

Non-assigned physical hazard

No tox haz

Not classified as toxic

No environmental hazard

Not classified as being environmentally hazardous

#### Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA The International Air Transport Association

#### 16c. Key literature references and sources for data

#### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2013-10-11.

Where such data was lacking, on the second hand the documentation on which this official classification is based was used, e.g. IUCLID (International Uniform Chemical Information Database). On the third hand, information was used from reputable international chemical suppliers, and on the fourth hand from other available information, e.g. safety data sheets from other suppliers or information from non-profit associations, whereby the reliability of the source was judged by an expert. If, in spite of this, reliable information was not found, the hazards were judged by expert opinions based on the known properties of similar substances, and according to the principles in 1907/2006 and 1272/2008.

#### Full texts for Regulations mentioned in this Safety Data Sheet

453/2010 COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

1272/2008 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16
December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing
Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

1999/45/EG DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

89/391 COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18
December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),
establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation
(EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and
Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC Annex I

# 16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

The calculation of the hazards of this mixture has been performed as an evaluation by applying a weight of evidence determination using expert judgement in accordance with 1272/2008 Annex I, weighing all available information having a bearing on the determination of the hazards of the mixture, and in accordance with 1907/2006 Annex XI.

#### 16e. List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

# 16f. Advice on any training appropriate for workers to ensure protection of human health and the environment Warning for misuse

This product is not expected to cause severe harm to humans or the environment. However the manufacturer, the distributor or the supplier cannot be responsible for unusual or criminal use of the product.

#### Other relevant information

#### Label information in accordance with 1999/45/EG

Hazard symbol Not applicable R-phrases Not applicable S-phrases Not applicable

#### **Editorial information**

This safety data sheet has been generated by the program KemRisk®, KemRisk Sweden AB, Teknikringen 10, SE-583 30 Linköping, Sweden.