

# SAFETY DATA SHEET

In accordance with 1907/2006 Annex II (2015/830) and 1272/2008  
(All references to EU regulations and directives are abbreviated into only the numeric term)  
Issued 2017-09-15  
Version number 1.0



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name  
MINIAX, MINIAX KS, VENTILAX, BRANDAX VS, BRANDAX KS. Reg. No: 0163-P1-4583  
PERFUME-AX 3, 9, 18 & 60. Reg. No: 0163-P1-4581  
AX-5 & AX-13. Reg. No: 0163-P1-4583  
COLOUR 3 & 9. Reg. No: 0163-P1-4580  
COLOUR 430. Reg. No: 0163-P1-4580  
COLOUR SMOKE-AX 18 RED, YELLOW, GREEN, BLUE, DARK GREY & ORANGE. Reg. No: 0163-P1-4580  
COLOUR SMOKE-AX 60 RED, YELLOW, GREEN, BLUE, DARK GREY & ORANGE. Reg. No: 0163-P1-4580  
Smoke Match, Reg. No: 0163-P1-4584

### 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  
Ringshyttan, Gruvstugan 729  
71393 Nora  
Sweden  
Telephone  
+46 581 43150  
E-mail  
info@bjornax.se

### 1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Fire or projection hazard (Category 1.4), H204  
Risk group 1.4S, Category: P1  
UN number: 0432. Non-packaged product, see section 14.  
Irritates eyes (Category 2), H319  
Harmful to aquatic life with long-lasting effects (Category Chronic 3), H412

### 2.2. Label elements

Hazard pictogram



Signal word  
Warning

Hazard statements  
H204  
Fire or projection hazard  
H319  
Causes serious eye irritation  
H412  
Harmful to aquatic life with long lasting effects

Precautionary statements  
P210  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking  
P234  
Keep only in original packaging

### 2.3. Other hazards

Not indicated.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

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

Constituent	Classification	Concentration
<b>POTASSIUM CHLORATE</b>		
CAS No: 3811-04-9 EC No: 223-289-7 Index No: 017-004-00-3	Ox Sol 1, Acute Tox <i>4dust-mist</i> , Acute Tox <i>4oral</i> , Aquatic Chronic 2; H271, H332, H302, H411	≥15 - <25 %
<b>AMMONIUM CHLORIDE</b>		
CAS No: 12125-02-9 EC No: 235-186-4 Index No: 017-014-00-8	Acute Tox <i>4oral</i> , Eye Irrit 2; H302, H319	10 - 20 %

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 complements used in the calculation of the classification 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 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: Rinse the eye for several minutes with lukewarm water. Contact a physician.

#### Upon skin contact

Skin contact with chemicals from the product in normal use is not appropriate. In case of broken or tampered products the procedure for the constituent chemicals is as follows: Wash the skin with soap and water.

#### Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

#### Upon eye contact

Irritation.  
Smarting pain.

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

Symptomatic treatment.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

#### Recommended extinguishing agents

Extinguish with water.

#### Unsuitable extinguishing agents

Must not be extinguished with foam, powder or carbon dioxide.

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

An explosion may occur with storage in a sealed, strong container.

### 5.3. Advice for fire-fighters

Protective measures should be taken regarding other material at the site of the fire.  
Evacuate all not-authorized personnel.  
In case of fire use a respirator mask.  
Wear full protective clothing.

## SECTION 6: Accidental release measures

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

- Ensure good ventilation.
- Avoid inhalation and exposure to skin and eyes.
- Use recommended safety equipment, see section 8.

### 6.2. Environmental precautions

- Avoid that larger spills reach drains, fields or waterways.

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

- To be collected with caution and transported to a waste disposal facility.
- Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

### 6.4. Reference to other sections

- See section 8 and 13 for personal protection equipment and disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Do not inhale the smoke.
- When using, place the product on an incombustible base and check that the product has gone out completely before it is discarded.
- Store this product separately from food items and keep it out of the reach of children and pets.
- Handle in premises with good ventilation.

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

- Keep away from moisture.
- Store only in the original package.

### 7.3. Specific end uses

- See identified uses in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

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

#### DNEL

- No data available.

#### PNEC

- No data available.

### 8.2. Exposure controls

- In terms of minimizing risks, attention must be paid to the health hazards (see Sections 2, 3 and 10) of this product or any of its ingredients according to EU directives 89/391 and 98/24 and national occupational legislation.

#### 8.2.1. Appropriate engineering controls

- Use adequate ventilation.

#### Eye/face protection

- Eye protection should be worn if there is any danger of direct exposure or splashing.

#### Skin protection

- 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

- Use proper protective breathing equipment in case of insufficient ventilation.
- Dust filter IIb (P2) may be required.

#### 8.2.3. Environmental exposure controls

- Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

## SECTION 9: Physical and chemical properties

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

- |  |                                     |
|--|-------------------------------------|
| a) Appearance                              | Form: Solid article. Colour: white. |
| b) Odour                                   | Not indicated                       |
| c) Odour threshold                         | Not indicated                       |
| d) pH                                      | Not indicated                       |
| e) Melting point/freezing point            | Not indicated                       |
| f) Initial boiling point and boiling range | Not indicated                       |
| g) Flash point                             | Not indicated                       |

h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not indicated
k) Vapour pressure	Not indicated
l) Vapour density	Not indicated
m) Relative density	Not indicated
n) Solubility	Not indicated
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not indicated
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
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

Not indicated.

### 10.4. Conditions to avoid

Avoid heat, sparks and open flames.

### 10.5. Incompatible materials

Avoid mixing with organic material.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Not indicated.

#### Acute toxicity

The mixture has not been tested as a whole but considered to be a non-acutely toxic substance, based on the full information on the toxicity of all the ingredients.

#### POTASSIUM CHLORATE

LD50 rabbit 24h: > 2000 mg/kg Dermally

LD50 rat 24h: 1870 mg/kg Orally

#### AMMONIUM CHLORIDE

LD50 rat 24h: 1650 mg/kg Orally

#### Skin corrosion/irritation

No skin irritation has been detected in the event of normal use.

#### Serious eye damage/irritation

Eye contact may cause burning pain or irritation.

#### Respiratory or skin sensitisation

No hypersensitive reactions have been reported for the substances in this mixture.

#### Germ cell mutagenicity

No mutagenic effects have been reported for the substance in this mixture.

#### Carcinogenicity

No carcinogenic effects have been reported for the substances in this product.

#### Reproductive toxicity

No toxic effects to reproduction have been reported for the substances in this mixture.

#### STOT-single exposure

No known hazards for occasional exposure.

#### STOT-repeated exposure

No known hazards for repeated exposure.

#### Aspiration hazard

The product is not classified as being toxic for aspiration.

## SECTION 12: Ecological information

### 12.1. Toxicity

Prevent release on land, in water and drains.  
Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

There is no information regarding persistence or degradability.

### 12.3. Bioaccumulative potential

There is no information regarding bioaccumulation.

### 12.4. Mobility in soil

Information about mobility in nature is not available.

### 12.5. Results of PBT and vPvB assessment

No chemical safety report has been executed.

### 12.6. Other adverse effects

Data lacking.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste handling of the product

Empty, rinsed packaging is sent for recycling where practicable.  
The product after use is not classed as hazardous waste. Unused or broken products are classed as hazardous waste.  
Observe local regulations.  
See also national waste regulations.

## 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

\*)The exclusion from class 1 is only applicable for products packaged for transport. For non-packaged products, see section 2.1.

## SECTION 15: Regulatory information

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

Not indicated.

### 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

This is the first version

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

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

Ox Sol 1	Oxidising solids (Verified Category 1)
Acute Tox 4 <i>dust-mist</i>	Acute toxicity (Category 4 dust/mist)
Acute Tox 4 <i>oral</i>	Acute toxicity (Category 4 oral)

Aquatic Chronic 2  
Eye Irrit 2

Toxic to aquatic life with long lasting effects (Category Chronic 2)  
Irritates eyes (Category 2)

#### **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

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 2017-09-15.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

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

1907/2006 Annex II (2015/830)	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)
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
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
98/24	COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)
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

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

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

#### **16e. List of relevant hazard statements and/or precautionary statements**

##### **Full texts for hazard statements mentioned in section 3**

H271 May cause fire or explosion; strong oxidiser

H332 Harmful if inhaled

H302 Harmful if swallowed

H411 Toxic to aquatic life with long lasting effects

H319 Causes serious eye irritation

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

##### **Recommended or mandatory requirements on education**

This product is not allowed to be used by a young persons (younger than 18 years old).

##### **Warning for misuse**

This product can cause harm if used improperly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with the directions for use.

##### **Other relevant information**

#### **Editorial information**

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)

