



# Safety data sheet

According to 1907/2006/EC

Date of last issue: 2009-10-14

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## 1. NAME OF THE PRODUCT AND COMPANY INFORMATION

**TRADE NAME:** MINIAX, MINIAX KS, VENTILAX  
**USE:** SMOKE FOR AIRFLOW STUDIES, LEAKAGE TEST.  
**MANUFACTURER:** BJÖRNAX AB  
**ADDRESS:** STRÅSSA FÖRETAGSBY  
S-711 77 STRÅSSA SWEDEN  
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**ISSUED BY:** TORBJÖRN FREDRIKZON

## 2. HAZARDS INFORMATION

### Classification

#### Containing substances in solid form:

Explosive when mixed with combustible material.

Harmful by inhalation and if swallowed.

Irritating to eyes.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Generated smoke:

Could cause irritation to eyes or by inhalation during conditions with long exposure time or incorrect use.

## 3. COMPOSITION INFORMATION

MATERIAL:	EG-No:	CAS-No:	Content %	Symbols:	R-phrases:
Potassium Chlorate	223-289-7	3811-04-9	>18 - <24	Xn, O, N	R9-20/22-51/53
Ammonium chloride	235-186-4	12125-02-9	>35 - <40	Xn, Xi	R22-36

## 4. FIRST AID MEASURES

Information below refers to containing substance in a broken cartridge.

### Skin contact

Take off all contaminated clothing/shoes.

Wash the skin with soap and water.

### Eye contact

Rinse immediately with water for at least 5 minutes. Hold eyelids apart.

Contact a doctor if the complaints persist.

### Ingestion

Rinse mouth and immediately give plenty of milk or water to drink if the person is fully conscious.

Contact physician if larger quantity has been swallowed (show this Safety Data Sheet).

Information below refers to overexposure of generated smoke.

### Inhalation

Fresh air.

Possibly assisted respiration.

Contact a doctor if the complaints persist.

### Skin contact

Take off all contaminated clothing/shoes.

Wash the skin with soap and water.

### Eye contact

Rinse immediately with water for at least 5 minutes. Hold eyelids apart.

Contact a doctor if the complaints persist.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Extinguish with plenty of water.  
Don't use foam, powder, carbon dioxide.

### Unusual fire hazards

Reacts and burns together with flammable substances.  
When mixed with flammable substances, it can cause an explosion.  
Do not breathe fumes.

### Special protective equipment

Appropriate breathing apparatus may be required.

### Additional information

Cool endangered containers with water in case of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

For personal protection see section 7 and 8.

### Environmental precautions

Do not empty into drains.

### Methods for cleaning up

Sweep up spills separately.  
Place in container for disposal according to local regulations (heading 13.)

## 7. HANDLING AND STORAGE

### Information for safe handling

Normal precautions taken when handling chemicals should be observed.  
During use, be sure that the product is placed on a non flammable base and check that the (ash rests) extinct fully before they are thrown.  
The room where this substance is used should have means for rinsing the eyes.  
Avoid contact with eyes and skin. Do not unnecessary breathe the smoke.  
Do not eat or drink during work – no smoking. Comply with the health and safety at work laws.

### Requirements to be met by storerooms and containers

Keep the product in cool and dry scope separated from anticipating ignition sources.  
Containers which are opened must be carefully resealed to prevent leakage.  
Keep away from foodstuffs and animal feeds.

### Further information about storage conditions

Always keep in containers of same material as the original one.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

### 8. Exposure controls/personal protection

#### Additional information about engineering measures

Provide adequate ventilation. If this is not sufficient to hold the value for maximum workplace concentration must respiration protection be used.

The usual precautionary measures for the handing of chemicals have to be observed.

#### Exposure limits

Swedish limit values or limit values according to the European commission:

Substance	CAS-No	Level limit value	Ceiling limit value	Short time value
Ammonia	7664-41-7	25 ppm, 18 mg/m <sup>3</sup>	50ppm, 35 mg/m <sup>3</sup>	
Hydrochloride	7647-01-0		5 ppm, 8 mg/m <sup>3</sup>	

## 8. Cont. EXPOSURE CONTROL AND PERSONAL PROTECTION

### Personal protective equipment

### General protective and hygiene measures

Wash hands before breaks and after work.

### Respiratory protection

If workplace limits are exceeded, a gasmask approved for this purpose must be worn.  
(Particle filter P2)

## 9. PHYSICAL AND CHEMICAL QUALITIES

<b>Appearance :</b>	PP-sheath with hard pressed powder.
<b>Colour:</b>	White
<b>Smell:</b>	Minimal
<b>Ignition point:</b>	over 200 C°

## 10. STABILITY AND REACTIVITY

### Conditions to avoid

Stable under recommended storage and handing conditions (See section 7).

### Materials to avoid

High-temperature

### Hazardous decomposition products.

Avoid mixtures with organic materials.

## 11. TOXICOLOGICAL INFORMATION

**Information about this preparation is not available.  
The information below is for containing substances.**

**Note! This information below refers to this containing substance in concentrate.**

### Ammonium chloride

Ingestion of moderate amounts is probably rather harmless, but in large amounts the substance can be corrosive. May be approved as a food additive.

### Symptoms

Inhalation: Coughing, sore throat.  
Skin contact: Reddening  
Eye contact: Reddening, pain  
Ingestion: Nausea, sore throat, vomiting (ICSC 1512).

### Toxicological data from animal studies

**Toxicity by ingestion** LD50 rat: 1400 mg/kg

**Note! This information below refers to this containing substance in concentrate.**

### Potassium chlorate

### Symptoms

Ingestion: May cause chemical burns in the stomach and intestines.  
Inhalation: Irritating to the respiratory system.  
Skin contact: Can be irritating to the skin.  
Eye contact: Irritating to the eyes.

### Toxicological data from animal studies

**Toxicity by ingestion** LD50 rat: 1870 mg/kg

**Toxicity by skin contact** LD50 rabbit: >2000 mg/kg

## 12. ECO-TOXICOLOGICAL INFORMATION

Information about this preparation is not available.

The information below is for containing substances.

**Note! This information below refers to this containing substance in concentrate.**

**Ammonium chloride**

**Akut aquatic toxicity**

**LC50 Fish 96h:** 0,21 mg/l Species: Oncorhynchus mykiss

**EC50 Daphnia 48h:** 0,96 mg/l Species: D. pulicaria

**Note! This information below refers to this containing substance in concentrate.**

**Potassium chlorate**

**Akut aquatic toxicity**

**LC50 Fish 96h:** 1750 mg/l Species: Oncorhynchus mykiss

**EC50 Daphnia 48h:** 599 mg/l Species: D. magna

**IC50 Algae 72h:** 0,077 mg/l

**Bioaccumulative potential**

**Log Pow:** <0

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local authority requirements.

Ash rests after complete incinerations are dealt with as common household wastes.

Note! Check that the product extinct complete.

Unused or broken product is classified as hazardous waste.

EWC suggestions for waste: 160303

## 14. TRANSPORT INFORMATION

**ADR/RID:**

**UN-No:**

**Proper shipping name:** Not classified as Dangerous Goods.

**Class: Packing group:**

**IMDG:**

**UN-No:**

**Proper shipping name:** Not classified as Dangerous Goods.

**Class: Packing group:**

**Marine Pollutant:**

**DGR:**

**UN-No:**

**Proper shipping name:** Not classified as Dangerous Goods.

**Class: Packing group:**

## 15. REGULATORY INFORMATION

### Symbols:



**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.**

### Substance name

Potassium chlorate EC-No 223-289-7 -

Ammonium chloride EC-No 235-186-4

EC-labeling

### Risk phrases

R 9 - Explosive when mixed with combustible material.

R 20/22 - Harmful by inhalation and if swallowed.

R 36 - Irritating to eyes.

R 51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety phrases

S 13 - Keep away from food, drink and animal feedingstuffs.

S 16 - Keep away from sources of ignition - No smoking.

S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 27 - Take off immediately all contaminated clothing.

S 61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

## OTHER INFORMATION

### The full text of the risk phrases under heading 3

R 9 - Explosive when mixed with combustible material.

R 20/22 - Harmful by inhalation and if swallowed.

R 22 - Harmful if swallowed.

R 36 - Irritating to eyes.

R 51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Revision: 2

Changes made under heading 2, 3, 4, 7, 8, 10, 11, 12, 14, 15, 16

Generated smoke – gas analysis is provided on request.

The user of this product must decide if the information in this safety data sheet is sufficient for which the product will be used.