



## RECORD OF GROUP STANDARD ASSIGNMENT



A copy of this record does not need to be provided to the EPA.

This record should be retained by the importer or manufacturer of the product. It must be available for inspection if requested by a HSNO enforcement officer.

The importer or manufacturer may find it useful to give a copy of this record (or the non-confidential parts of this record) to companies to whom this product is supplied. If they do not, they must, as a minimum, advise that the product they are supplying is HSNO approved and give the approval number and name of the group standard under which the product is approved. This information could be provided on the safety data sheet (SDS).

The assessor is the person who classifies the substance, assigns it to a group standard and completes this record of assignment.

**Product Name**

Miniax Smoke Cartridges

**Product Type/Use**

Smoke generation for airflow testing

**Company Name**

Combustion Control Ltd

**Contact Name**

Dave Crozier

**Company Address**

266 Church Street, Onehunga, Auckland 1061

**Name and company of Assessor**

Technical Compliance Consultants (NZ) Ltd – Geoffrey Meikle

Group Standard Product assigned to: Class 4 Substances Group  
Standard 2006 – HSR002522

Signature of Assessor

27/06/15

**HSNO Classification of Product :** 4.1.1B, 6.1E (oral), 6.3B, 6.4A, 6.5A, 6.5B, 6.9B (oral, inhalation), 9.1C, 9.3C

**Was this product classified using:**

- Full composition
- GHS categories
- R-Phrases
- Other – please specify EPA Consultation through SoS and Application - SOS1002986 / APP202483

**Does the use of the product meet that specified for the group standard?**

- Yes
- No

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **Smoke Cartridges**  
 Product Use: Airflow and seal testing, smoke detection  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Combustion Control  
 Address: 266 Church Street  
 Onehunga, Auckland 1061  
 Telephone: +64 9 634 1610

**Emergency Telephone:**  
 New Zealand: **0800 764 766 (National Poison Centre)**

Manufacturer: Bjornax AB  
 Address: Strassa Foretagsby  
 SE-71177 Strassa, Sweden

Date of SDS Preparation: 29 June 2015

### Section 2. Hazards Identification

**The manufacturer has stated that this substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001***

**EPA Approval No: HSR002522 – Class 4 Substances**

#### Pictograms



Flammable Toxic/Irritant Chronic

Signal Word: DANGER

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
4.1.1B	H228	Flammable solid.	Category 2
6.1E (oral)	H303	May be harmful if swallowed.	Category 5
6.3B	H316	Causes mild skin irritation.	Category 3
6.4A	H319	Causes serious eye irritation.	Category 2A
6.5A	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Category 1
6.5B	H317	May cause an allergic skin reaction.	Category 1
6.9B	H373	May cause damage to organs through prolonged or repeated exposure	Category 2
9.1C	H412	Harmful to aquatic life with long lasting effects.	Category 3
9.3C	H433	Harmful to terrestrial vertebrates.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, sparks, open flames. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting
P260	Do not breathe dust or smoke.
P264	Wash exposed skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P285	In case of inadequate ventilation wear respiratory protection.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Storage Code	Storage Statement
<i>None allocated</i>	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

<b>Section 3. Composition / Information on Ingredients</b>
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Ingredients	Wt%	CAS NUMBER.
Ammonium Chloride	40%	12125-02-9
Potassium Chlorate	25%	3811-04-9

<b>Section 4. First Aid Measures</b>
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Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: Get medical advice.
If Swallowed	Do NOT induce vomiting. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if you feel unwell.

If Inhaled

Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Flammable Solid
<b>Hazards from combustion products</b>	Fumes may contain trace Ammonia and Chlorine. This product has the potential to cause fire or to create an additional hazard during fire
<b>Suitable Extinguishing media</b>	Water.
<b>Precautions for firefighters and special protective clothing</b>	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
<b>HAZCHEM CODE</b>	<b>1Z</b>

## Section 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Avoid discharge into sewers. Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

### Methods and material for containment and cleaning up

Collect.

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.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Keep away from heat, sparks, open flames. No smoking.
- Do not breathe dust or smoke.
- Wash exposed skin thoroughly after handling.
- Avoid release to the environment.
- Wear protective gloves and eye/face protection.
- In case of inadequate ventilation wear respiratory protection.
- Only light on a flat, stable surface. Blow out any flames produced.

### Precautions for Storage:

- Handle in premises with modern ventilation standards, store in a dry place. Must not be stored in the vicinity of combustible material.
- Keep away from moisture.
- Store only in the original package.
- Store away from incompatible materials listed in Section 10.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ammonium chloride, fumes [12125-02-9]		10		20

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

### Engineering Controls

Ensure adequate ventilation is available

### Personal Protection

<b>Eyes</b>	Wear goggles with side shields. Avoid wearing contact lenses.
<b>Hands and Skin</b>	Gloves (nitrile, rubber, pvc) and overalls
<b>Respiratory</b>	Not required through normal use. Avoid breathing smoke.
<b>General</b>	Take precaution against static discharge.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Cartridge containing white or coloured compacted powder
<b>Odour</b>	None
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	Not applicable
<b>Boiling Point</b>	Not applicable
<b>Melting Point</b>	Not applicable
<b>Freezing Point</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Slightly Flammable – will smolder
<b>Upper and Lower Exposure Limits</b>	Not applicable
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density</b>	Not applicable
<b>Relative Density</b>	Not applicable
<b>Solubilities</b>	Not applicable
<b>Partition Coefficient:</b>	Not applicable
<b>Auto-ignition Temperature</b>	> 200°C
<b>Decomposition Temperature</b>	Not applicable
<b>Kinematic Viscosity</b>	Not applicable
<b>Particle Characteristics</b>	Not applicable

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	Extreme heat, damp environments
<b>Incompatible Materials</b>	Flammable gases and liquids, oxidizers, corrosives, strong acids and bases.
<b>Hazardous Decomposition Products</b>	Fumes may contain trace Ammonia and Chlorine. This product has the potential to cause fire or to create an additional hazard during fire

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	May be harmful if swallowed.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Eye</b>	Causes severe irritation to eyes.
<b>Skin</b>	Causes mild skin irritation. May cause an allergic skin reaction.

**Chronic Effects:**

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Causes damage to organs through prolonged or repeated exposure.

**Section 12. Ecotoxicological Information**

HSNO Classes: 9.1C = Harmful to aquatic life with long lasting effects.  
9.3C = Harmful to terrestrial vertebrates.

Avoid release to the environment.

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

**Section 13. Disposal Considerations**

**Disposal Method:** Spent cartridge should be treated as hazardous waste.

**Precautions:** None.

**Disposal methods to avoid:** Avoid release to the environment.

**Section 14 Transport Information**

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**

Road and Rail Transport

UN No: 3178  
Class-primary 4.1  
Packing Group III  
Proper Shipping Name: FLAMMABLE SOLID, INORGANIC, N.O.S.

Air Transport

UN No: 3178  
Class-primary 4.1  
Packing Group III  
Proper Shipping Name: FLAMMABLE SOLID, INORGANIC, N.O.S.

Marine Transport

UN No: 3178  
Class-primary 4.1  
Packing Group III  
Proper Shipping Name: FLAMMABLE SOLID, INORGANIC, N.O.S.

**Section 15 Regulatory Information**

EPA Approval Code: Class 4 Substances – HSR002522

HSNO Classification: 4.1.1B, 6.1E (oral), 6.3B, 6.4A, 6.5A, 6.5B, 6.9B, 9.1C, 9.3C

HSNO Controls:

Trigger quantities for this substance:

Product Name: Smoke Cartridges  
Date of SDS: 29 June 2015

Issued by: Technical Compliance Consultants (NZ) Ltd  
Tel: 64 9 475 5240 www.techcomp.co.nz

	Trigger Quantity
Approved Handler	Not required
Location Certificate	100 kg
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000 kg
Emergency Response Plan	1000 kg
Secondary Containment	1000 kg
Restriction of Use	For controlled smoke generation only

<b>Section 16</b>	<b>Other Information</b>
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**Glossary**

EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

**Disclaimer**

This document has been issued by TCC (NZ) Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, Combustion Control Ltd, if further information is required.

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