



Conforms to ANSI Z400.1-210 Standard - HPR - Canada

SAFETY DATA SHEET

Smoke Emitters

SECTION 1: Identification

1.1. Product identifier

▼ Trade name

Smoke Emitters

▼ Other names / Synonyms

MINIAX, UFI:F8SJ-93KW-H00N-TN7T, Reg, No: 0163-P1-4583
MINIAX KS, UFI:8CSJ-T399-U004-FYTV, Reg, No: 0163-P1-4583
VENTILAX, UFI: 7FSJ-93YQ-400N-4ADX, Reg, No: 0163-P1-4583
BRANDAX VS, UFI:5HSJ-T3P3-F004-SP00, Reg, No: 0163-P1-4583
BRANDAX KS, UFI:PMSJ-A3CG-R00N-F0K2, Reg, No: 0163-P1-4583
PERFUME-AX 3, UFI:Y0UJ-E3DU-N00J-1FW3, Reg, No: 0163-P1-4581
PERFUME-AX 9, UFI: D2UJ-X337-Y001-PTG5, Reg, No: 0163-P1-4581
PERFUME-AX 18, UFI:C5UJ-E3SN-800J-C527, Reg, No: 0163-P1-4581
PERFUME-AX 60, UFI:58UJ-X3G1-K001-0GN9, Reg, No: 0163-P1-4581
SPLINTAX, SMOKE MATCH, UFI:2A1K-V3G7-A005-YR0V
COLOUR SMOKE-AX 3, UFI:PQVJ-J36S-S00F-89JD, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 9, UFI:VSJ-13W6-200X-XN4F, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 18 ORANGE, UFI:RRWJ-M3GJ-F00D-6DJ5, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 18 YELLOW, UFI:5NWJ-33T5-400W-J1Y3, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 18 BLUE, UFI:TGWJ-33EC-H00W-7CSY, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 18 GREEN, UFI:YJWJ-M33R-U00D-VQD1, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 18 RED, UFI:8TWJ-435X-R00V-VR47, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 18 DARK GREY, UFI:KWWJ-M3VC-200D-H2Q9, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 60 ORANGE, UFI:HKXJ-P3DH-H00A-TTCT, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 60 YELLOW, UFI:VHXJ-53Q4-600U-5FSR, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 60 BLUE, UFI:3AXJ-53AA-K00U-USMM, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 60 GREEN, UFI:9EXJ-P30Q-W00C-G46P, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 60 RED, UFI:1PXJ-632W-T00U-G4XV, Reg, No: 0163-P1-4580
COLOUR SMOKE-AX 60 DARK GREY, UFI:N1WJ-J3YD-000E-WNVN, Reg, No: 0163-P1-4580
AX-5, UFI:X6YJ-7379-N00T-F6F8, Reg, No: 0163-P1-4583
AX-13, UFI:CFYJ-R39G-K009-E76F, Reg, No: 0163-P1-4583
BRANDAX KSO, UFI:N1WJ-J3YD-000E-WNVN, Reg, No: 0163-P1-4583

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

Relevant identified uses of the substance or mixture

Leakage tests, Chimney tests, FX

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Björnax AB
Ringshyttan, Gruvstugan 729
71393 Nora
Sweden
+4658143150
www.bjornax.se

Contact person

Torbjörn Fredrikzon



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E-mail

info@bjornax.se

SDS date

2022-11-29

SDS Version

9.0

Date of previous version

2022-11-22 (8.0)

1.4. Emergency telephone number

In an emergency call 911

Alberta / Northwestern Territories (PADIS): 1-800-332-1414

British Columbia (DPIC): 1-800-567-8911

Manitoba: 1-855-7POISON (1-855-776-4766)

New Brunswick: 911

Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161

Ontario (OPC): 1-800-268-9017

Québec (CAPQ): 1-800-463-5060

Saskatchewan (PADIS): 1-866-454-1212

Yukon Territory: (867) 393-8700

Transport emergencies: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone (24 hours)

See also section 4 "First aid measures".

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Expl. 1.4; H204, Fire or projection hazard.

Acute Tox. 4; H302, Harmful if swallowed.

Eye Irrit. 2; H319, Causes serious eye irritation.

2.2. Label elements

Labelling is in accordance with the labelling exemptions for products intended to be marketed with a view to obtaining an explosive or pyrotechnic effect.

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Fire or projection hazard. (H204)

Safety statement(s)

General

Keep out of reach of children. (P102)

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Keep only in original packaging. (P234)

Do not subject to grinding/shock/friction. (P250)

Response

-

Storage

-

Disposal

Dispose of contents/container in accordance with local regulation
(P501)

Hazardous substances

potassium chlorate



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ammonium chloride

Additional labelling

Not applicable.

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
potassium chlorate	CAS No.: 3811-04-9	15-25%	Ox. Sol. 1, H271 Acute Tox. 4, H302 Acute Tox. 4, H332	
ammonium chloride	CAS No.: 12125-02-9	10-20%	Acute Tox. 4, H302 Eye Irrit. 2, H319	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

None known.

SECTION 4: First-aid measures

4.1. Description of first aid measures

General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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



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IF exposed or concerned:
Get immediate medical advice/attention.
[Information to medics](#)
Bring this safety data sheet or the label from this product.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Recommended: Waterjet, water mist, alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters. If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Halogenated compounds
Nitrogen oxides (NO_x)
Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact a poison centre in order to obtain further advice. See section 1 "Emergency telephone number".

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Avoid contact with the substance. Wear suitable protective equipment before handling. Follow emergency procedures. Evacuate the danger area and notify your supervisor. Ask for assistance from a competent person.

For emergency responders: Close off the hazard area. Ask for assistance from a competent person.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Because of the danger of self-ignition, any waste from the product, spray mist and soiled rags etc. are to be kept in a fire-proof place in air-tight containers, alternatively the waste is to be burned.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in original packaging if possible. Explosives and explosive articles should be stored in accordance with the licence issued by the relevant national authority. Store under cool conditions. Store under dry conditions. Stable under normal storage conditions. Maximum storage quantity should be agreed with national authorities. Store in a well-ventilated place. Store in a closed container.

[Recommended storage material](#)

Always store in containers of the same material as the original container.

[Storage temperature](#)

Dry, cool and well ventilated

[Incompatible materials](#)

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.



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7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ALBERTA

ammonium chloride

Long term exposure limit (8 hours) (mg/m³): 10

Short term exposure limit (15 minutes) (mg/m³): 20

Annotations:

3 = Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.

Occupational Health and Safety Code 2009 Order, Alta Reg 87/2009 (revised in 2018)

BRITISH COLUMBIA

ammonium chloride

Time-Weighted Average Limit (TWA): 10 mg/m³

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 20 mg/m³

OHS Regulation Part 5: Chemical Agents and Biological Agents.

ONTARIO

ammonium chloride

Time-Weighted Average Limit (TWA): 10 mg/m³

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 20 mg/m³

Regulation 833 (Control of Exposure to Biological or Chemical Agents) and Ontario Regulation 490/09 (Designated Substances)

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above).

Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

8.3. Individual protection measures, such as personal protective equipment

Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

▼ Respiratory Equipment

Work situation	Type	Class	Colour	Standards
	No special when used as intended.			



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Work situation	Type	Class	Colour	Standards
In case of inadequate ventilation	S/SL	P1	White	EN149


Skin protection

Recommended	Type/Category	Standards
No special when used as intended.	-	-

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
No specific requirements	-	-	-

Eye protection

Type	Standards
No specific requirements	-

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Solid

Colour

Not applicable

Odour

Aromatic

Odour threshold (ppm)

Testing not relevant or not possible due to the nature of the product.

pH

Not applicable

Density (g/cm³)

No data available

Relative density

No data available

Viscosity (40°C)

Not applicable - product is a solid

Phase changes

Melting point (°C)

Testing not relevant or not possible due to the nature of the product.

Boiling point (°C)

Does not apply to solids.

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Vapour density

Does not apply to solids.

Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Evaporation rate (n-butylacetate = 100)

Data on fire and explosion hazards

Flash point (°C)

Not applicable - product is an article



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Ignition (°C)

>300

Auto flammability (°C)

>300

Explosion limits (% v/v)

Not applicable - product is an article

Solubility

Solubility in water

Sparingly soluble

n-octanol/water coefficient

No data available

9.2. Other information

Solubility in fat (g/L)

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Heating may cause an explosion.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Halogenated compounds

Nitrogen oxides (NO_x)

Some metal oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product/substance	potassium chlorate
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg
Other information	

Product/substance	potassium chlorate
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1870 mg/kg
Other information	

Product/substance	ammonium chloride
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50



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Result 1650 mg/kg
Other information

Harmful if swallowed.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.
Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

Waste treatment methods

None of the components are listed

Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.



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SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to Transportation of dangerous goods regulations, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: Regulatory information

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

This MSDS is for Canada use only.

NRCAN. Auth. No: A75-090420001

UN. No: Not Class 1

UN Class: Not Class 1

15.2. Canadian lists

DSL / NDSL

potassium chlorate is listed in the non-confidential portion of DSL / NDSL

ammonium chloride is listed in the non-confidential portion of DSL / NDSL

15.4. Restrictions for application

People under the age of 18 shall not be exposed to this product.

15.5. Demands for specific education

No specific requirements.

Additional information

Not applicable.

15.7. Chemical safety assessment

No

Sources

Explosives Regulations, 2013 (SOR/2013-211)

Hazardous Products Regulations (SOR/2015-17)

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H271, May cause fire or explosion; strong oxidiser.

H302, Harmful if swallowed.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ANSI = American National Standards Institute

ATE = Acute Toxicity Estimate



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BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
DSL = Domestic Substances List
NDSL = Non-domestic substances list
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL = A specific concentration limit.
SOR = Statutory Orders and Regulations
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative
WHIMS = Workplace Hazardous Materials Information System

Additional information

The classification of the mixture in regard to physical hazards has been based on experimental data.

▼ The safety data sheet is validated by

TF

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: CA-en