FlameStop

SAFETY DATA SHEET

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SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

PRODUCT IDENTIFIER:

SMOKE BOMBS

OTHER MEANS OF IDENTIFICATION:

PSMOKEBOMB *SMOKE BOMBS - PACK OF 5*
MINIAX, MINIAX KS, VENTILAX, BRANDAX VS, BRANDAX KS
PERFUME-AX 3, 9, 18 & 60
AX-5, AX-13
COLOUR 3 & 9
COLOUR 430
COLOUR SMOKE-AX 18 RED, YELLOW, GREEN, BLUE, DARK GREY & ORANGE
COLOUR SMOKE-AX 60 RED, YELLOW, GREEN, BLUE, DARK GREY & ORANGE
SMOKE MATCH

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Use of substance / mixture:	*smoke for leagage tests and air flow studies*

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Supplier:	*FlameStop*
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SAFETY DATA SHEET PREPARED IN ACCORDANCE WITH OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)

SECTION 2 - HAZARD(S) IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION IN ACCORDANCE WITH 1272/2008:

Hazard Classification:

Fire or projection hazard (Category 1.4)

Risk group 1.4s, Cateogry P1

UN Number: 0432. Non-packaged product.

Irritates eyes (Category 2)

Harmful to aquatic life with long-lasting effects (Category Chronic 3)

LABEL ELEMENTS

Hazard pictograms	
Pictogram code	***GHS01 Exploding Bomb, GHS06 Exclaimation Mark***
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	
General	
Prevention	**P210** ***Keep away from heat, hot surfases, sparks, open flames and other ignition sourses. No Smoking.***
Response	
Storage	**P234** ***Keep only in original packaging.***
Disposal	***P273 Avoid release to the environment***

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

MIXTURE INGREDIENTS

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.

Component	*CAS No.*	*EC No.*	*Classification*	*Concentration*
Potassium Chlorate	*3811-04-9*	*223-289-7*	*Ox Sol 1, Acute Tox 4dust-mist, Acute Tox 4oral, Aquatic Chronic 2; H271, H332, H302/ H411*	*>15 - <25%*
Ammonium Chloride	*12125-02-9*	*235-186-4*	*Acute Tox 4oral, 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 complement used in the calculation of the hazards of this mixture, see Section 16b. **Also contains component(s) not necessary to label.**

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

Generally

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

After inhalation

Inhalation of chemicals from the product in normal use is not appropriate. For generated smoke: In the case of overexposure to generated smoke, more the affected person to fresh air. If symptoms persists consult a doctor.

After 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 consituent chemicals is as follows. Wash the skin with soap and water.

After 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, obtain medical attention. 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.

After 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 attention. Do not induce vomiting.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE, DELAYED AND AGGREVATED

After eye contact

Iritation

Smarting pain

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptomatic treatment.

EXTINGUISHING MEDIA

Reccomended extinguishing agents:

Extinguish with water.

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

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA

Reccomended extinguishing agents:

Extinguish with water.

Unsuitable extinguishing agents:

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

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In case of fire, substances hazardous to health, or substances harmful in other respects, may be dispersed. Combustible solid.

ADVICE FOR FIREFIGHTERS

Protective measures should be taken regarding other material at the site of the fire.

Evacuate all not-authorised personnel.

In case of fire use a respirator mask.

Wear full protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Ensure good ventilation. Avoid inhalation and exposure to skin and eyes. Use reccomended safety equipment.

ENVIRONMENTAL PRECAUTIONS

Avoid that larger spills reach drains, fields or waterways. Avoid discharge into sewers.

METHODS AND MATERIALS 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 futher information, contact local authority sanitisation works. Present this safety data sheet.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling

This product should be stored well out of reach of young children and kept safely apart from products intended for consumption.

When using, place the product on an incombustible base and check that the product has gone out completely before it is discarded.

Conditions for safe storage, including any incompatibilities

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.

7.3. Specific end uses

Not relevant.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS / OCCUPATIONAL EXPOSURE LIMIT VALUES

Potassium Chlorate.

Ammonium Chloride.

No data avaliable.

CONTROL PARAMETERS

National limit values:

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

DNEL

No data avalaible

PNEC

No data avalaible.

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.

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

Dust filter IIb (P2) may be required.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Non- Pressurized	
Appearance **Physical State** **Color**	 ***Solid Article*** ***White***
Odor	***No smell or uncharacteristic smell***
Odor Threshold	***Not applicable***
pH	***Not applicable***
Melting point/freezing point	***Not applicable***
Initial boiling point and boiling range	***Not applicable***
Flash point	***Not applicable***
Evaporation rate	***Not applicable***
Flammability (solid, gas)	***Not applicable***
Upper/lower flammability or explosive limits	***Not applicable***
Vapour pressure	***Not applicable***
Vapour density	***Not applicable***
Relative density	***Not applicable***
Solubility	***Not applicable***
Partition coefficient: n-octanol/water	***Not applicable***

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Auto-ignition temperature	*> 200 °C*
Decomposition temperature	*Not applicable*
Viscosity	*Not applicable*
Explosive properties	*Not applicable*
Oxidising properties	*Not applicable*

OTHER INFORMATION

No data avaliable.

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY

The product containes no sobstances which can lead to hazardous reactions at normal use.

CHEMICAL STABILITY

The product is stable at normal storage and handling conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

Not indicated.

CONDITIONS TO AVOID

Avoid heat, sparks and open flames.

INCOMPATIBLE MATERIALS

Avoid mixing with organic material.

HAZARDOUS DECOMPOSITION PRODUCTS

Not indicated

SECTION 11 - TOXILOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE EFFECTS

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.

HARMFULNESS

The product is a health hazard.

CORROSIVE AND IRRITATING EFFECTS

Irritant on eyes, skin, mucous membranes and the upper respiratory tract.

SECTION 11 - TOXILOGICAL INFORMATION (CONTINUED)

RELEVANT TOXICOLOGICAL PROPERTIES

AMMONIUM CHLORIDE

LD50 rat (Orally) 24h = 1650 mg/kg

POTASSIUM CHLORATE

LD50 rabbit (Dermally) 24h > 2000 mg/kg

LD50 rat (Orally) 24h = 1870 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

TOXICITY

Contains substance that is toxic to herbs. Prevent discharge to soil, water and air.

For environmental impact, see also Section 2.

PERSISTENCE/DEGRADABILITY

No information about persistence or degradability exists but there is no reason to suppose that the product is persistent.

BIOACCUMULATIVE POTENTIAL

No information exists on bioaccumulation, but there is no cause for concern in respect of this.

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.

RESULTS OF PBT AND VPVB ASSESSMENT

No chemical safety report has been executed.

OTHER ADVERSE EFFECTS

Not indicated

SECTION 13 - DISPOSABLE CONSIDERATIONS

WASTE HANDLING OF THE PRODUCT

The product after use is not classed as hazardous waste. Unused or broken products are classed as hazardous waste.

CLASSIFICATION ACCORDING TO 2006/12

Recommended LoW-code: 16 03 03 Inorganic wastes containing dangerous substances.

Recycling of the product

Not indicated

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).

UN Number

Not classified as dangerous goods.

UN proper shipping name

Not applicable.

Transport hazard class(es)

Not applicable.

Packing group

Not applicable.

Environmental hazards

Not applicable.

Special precautions for user

Not applicable.

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

Not applicable.

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

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Not indicated.

CHEMICAL SAFETY ASSESSMENT

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

SECTION 16 - OTHER INFORMATION

INDICATION OF WHERE CHANGES HAVE BEEN MADE TO THE PREVIOUS VERSION OF THE SAFETY DATA SHEET

REVISIONS OF THIS DOCUMENT

Earlier versions

2015-08-26 The composition of this product was changed

2013-03-26 The composition of this product was changed

2012-06-01 The composition of this product was changed

SECTION 16 - OTHER INFORMATION (CONTINUED)

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*
Acute Tox 4oral	*Acute toxicity (Category 4 oral)*
Eye Irrit 2	*Irritates eyes (Category 2)*
Aquatic Chronic 2	*Toxic to aquatic life with long lasting effects (Category Cron 2)*
Acute Tox 4dust	*Acute toxicity (Category 4 dust)*
Ox Sol 1	*Oxidising solids (Verified Category 1)*

COMPREHENSIVE DEFINITION OF THE HAZARDS MENTIONED IN SECTION 2

EYE IRRIT 2

If, when applied to the eye of an animal, a substance produces at least in 2 of 3 tested animals, a positive response of:

- corneal opacity >= 1 and/or

- iritis >= 1, and/or

- conjunctival redness >= 2 and/or

- conjunctival oedema (chemosis) >= 2

calculated as the mean scores following grading at 24, 48 and 72 hours after installation of the test material, and which fully reverses within an observation period of 21 days

AQUATIC CHRONIC 3

Chronic (long-term) aquatic hazard. 96 hr LC50 (for fish) 10-100 mg/l and/or

48 hr EC50 (for crustacea) 10-100 mg/l and/or

72 or 96 hr ErC50 (for algae or other aquatic plants) 10-100 mg/l and the substance is not rapidly degradable and/or the experimentally determined BCF >= 500 (or, if absent, the log Kow >= 4) unless the chronic toxicity NOECs are > 1 mg/l

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*

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 2015-09-02.

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*
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)*
2006/12	*DIRECTIVE 2006/12/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 April 2006 on waste*
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*

SPECIFIC REGULATORY INFORMATION

For United States: Not regulated as an explosive, DOT approval EX-2000090108.

Canada: Not regulated as an explosive, see NRCAN approvals.

For Saudi Arabia: Not regulated as an explosive, doc:17-08-21, Al Sayed.

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.

LIST OF RELEVANT HAZARD STATEMENTS AND/OR PRECAUTIONARY STATEMENTS FULL TEXTS FOR HAZARD STATEMENTS MENTIONED IN SECTION 3

H302	*Harmful if swallowed*
H319	*Causes serious eye irritation*
H411	*Toxic to aquatic life with long lasting effects*

ADVICE ON ANY TRAINING APPROPRIATE FOR WORKERS TO ENSURE PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT

OTHER RELEVANT INFORMATION

DISCLAIMER

The information is based on the best knowledge of FlameStop Australia Pty Ltd and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are outside the control of the Company and its advisors we disclaim any liability for loss or damage when the product is used for purposes other than it is intended.

Please refer to our internet website for more information: www.flamestop.com.au

SDS sheets are available to download in the downloads section of our website.

For contact information please go to page 1 of this SDS.

END OF SDS.