

Material Safety Data Sheet Regulation EC No 1907/2006 Art.31

Product Name: Regin Fumax King Size Smoke Pellets

Product Code: REGS25

Last Reviewed: July 2019 **Next Review Due:** July 2024

Regin Products Ltd
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In accordance with 453/2010 and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade name FUMAX,FUMAX KS

1.2 Relevant identified uses of the substance or mixture and uses advised against identified use Smoke for leakage tests and air flow studies

1.3 Details of the supplier of the safety data sheet Company

Regin Products Ltd
8-12 Tower Square
Huntingdon
Cambs
PE29 7DT

Telephone 01480 412415

E-Mail sales@regin.co.uk

1.4 Emergency telephone number

Regin Products Ltd. - 01480 412415 (9:00-17:00 Monday - Friday)

For non-emergency poison information, see <http://www.who.int/ipcs/poisons/centre/directory/euro/en/>

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with 1272/2008

Irritates eyes (Category 2)

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

Classification

Harmful, Hazardous to the aquatic environment.

2.2 Label elements

Label information in accordance with 1272/2008

Hazard pictograms



Signal words	Warning
Hazard statement	
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects
Precautionary statement	
P210	Keep away from heat, sparks, open flames, or hot surfaces- No smoking
P273	Avoid release to the environment
P280	Wear eye protection

Label information

C.f.section 16

2.3 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 of the company from which the product was originally purchased.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS:

This product is composed of a mixture of several solid substances.

3.2 Mixture

Note that the table shows known hazards of the ingredients in a pure form.

These hazards are reduced or eliminated when mixed or diluted, c.f Section 16d.

Constituent	Classification	Concentration
AMMONIUM CHLORIDE		
CAS No 12125-02-9 EC No 235-186-4 Index No 017-014-00-8	Acute Tox 4 <i>oral</i> , Eye Irr2; H302, H319 H302, H319	40%
POTASSIUM CHLORATE		
CAS No 3811-04-9 EC No 223-289-7 Index No 017-004-00-3	Aquatic Chronic 2, Acute Tox <i>4dust</i> , Acute Tox <i>4oral</i> , Ox Sol 1; H411, H332, H302 H271, H332/302, H411	30%

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, e.f. 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 contact with the eyes

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: Flush immediately with lukewarm water for 15-20 min with the eye or eyes wide open. If symptoms persist, consult a doctor.

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

First rinse the mouth thoroughly with a lot of water and SPIT OUT. Then drink at least ½ litre of water and call a doctor/physician. Do NOT induce vomiting.

4.2 Most important symptoms and effects both acute and delayed

Information on symptoms are ambiguous or missing for this product.

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

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

5.3 Advise for fire-fighters

In case of fire use a respirator mask

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid discharge into sewers.

6.2 Environmental precautions

Not applicable

6.3 **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 safety data sheet.

6.4 **Reference to other section**

Not applicable

SECTION 7: HANDLING AND STORAGE

7.1 **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.

7.2 **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/PERSONAL PROTECTION

8.1 **Control parameters**

8.1.1 **National limit values, United Kingdom**

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

8.2 **Exposure controls**

In terms of minimizing risks, attention must be paid to the health hazards (c.f. 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

9.1 **Information on basic physical and chemical properties**

- | | | |
|----|--|--------------------------------------|
| a) | Appearance | Form: Solid article
Colour: white |
| b) | Odour | No smell or uncharacteristic smell |
| c) | Odour threshold | Not applicable |
| d) | pH | Not applicable |
| e) | Melting point /freezing point | Not applicable |
| f) | Initial boiling point and boiling range | Not applicable |
| g) | Flash point | Not applicable |
| h) | Evaporation rate | Not applicable |
| i) | Flammability (solid, gas) | Not applicable |
| j) | Upper/lower flammability or ignition temperature | >200°C |
| | explosive limits | |

k)	Vapour pressure	Not applicable
l)	Vapour density	Not applicabl
m)	Relative density	Not applicable
n)	Solubility	Not applicable
o)	Partition coefficient: n-octanol/water	Not applicable
p)	Auto-ignition temperature	Not applicable
q)	Decomposition temperature	Not applicable
r)	Viscosity	Not applicable
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 reaction 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

Not included

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

General or unspecific toxicity

Not indicated

Acute Effects

Not classified as an acutely toxic substance

Harmfulness

The product is a health hazard

Corrosive and irritating effects

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

Relevant toxicological properties

AMMONIUM CHLORIDE

Ld50 Orally rat=1650 mg/kg

POTASSIUM CHLORATE

LD50 Orally rat= 1870 mg/kg

LD50 Dermally rabbit>2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Contains substance that is toxic to herbs. Prevent discharge to soil, water and air for environmental impact, see also Section 2

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

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

12.4 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.

12.5 Results of PBT and vPvB assessment

No chemical safety report has been executed.

12.6 Other adverse effects

Not included

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Reference should be made to "Disposal of explosives waste" issued by the UK Health & Safety Executive, Guidance Note CS23, 1998

No attempt should be made to section or dismantle these devices

Large numbers of devices should be disposed of by burning in a controlled manner.

The product after use is not classed as hazardous waste

Container Disposal

Ensure packaging is free of explosive material prior to disposal

SECTION 14: TRANSPORT INFORMATION

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road) RID (railway), AND (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

Stowage category not indicated

Emergency Schedule (EmS) for FIRE (IMDG) Not indicated

Emergency Schedule (EmS) for SPILLAGE (imdg) not indicated

Transport category:

SECTION 15: REGULATORY INFORMATION

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

Not applicable

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

N/A

16b. 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 4 oral

Acute toxicity (Category 4 oral)

Eye irrit 2

Irritates eyes (Category 2)

Aquatic Chronic 2

**Toxic to aquatic life with long lasting effects
(Category Cro**

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

Eyes Irrit 2

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

-corneal opacity ≥ 1 and/or

-iris ≥ 1 , and/or

-conjunctival redness ≥ 2 and/or

-conjunctival oedema (chemosis) ≥ 2

calculated as the mean scores following grading at 24,48,72 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—100mg/1 and/or

48 hr EC50 (for crustacea) 10-100mg/1 and or

72 or 96 hr ErC50 (for algae or other aquatic plants) 10-100mg/1 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/1

Explanation 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

IATA The International Air Transport Association

Transport category:

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 1, as updated to 2013-03-28

Where such data was lacking, on the second hand the documentation on which the 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 REGULATIONS (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, 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, 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 200/2/EC Annex 1

16d Methods of evaluating information referred to in 1272/2008 Article 9 which was 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 1, weighing all available information having a bearing on the determination of the hazards of the mixture, 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

- H302 Harmful if swallowed
- H319 Causes serious eye irritation
- H411 Toxic to aquatic life with long lasting effects
- H332 Harmful if inhaled
- H271 May cause fire or explosive strong oxidizer

16f Advice on any training appropriate for workers to ensure protection of human health and the environment. Other relevant information

Label information

Hazard symbol



Harmful



Hazardous to the aquatic environment

H statements

- H302 Harmful if swallowed
- H319 Causes serious eye irritation
- H412 Harmful to aquatic life with long lasting effects

P statements

P260 – Do not breathe dust/fume/gas/mist/vapours/spray.

P262 – Do not get in eyes, on skin, or on clothing.

P305/P351/P313 - IF IN EYES: Rinse cautiously with water for several minutes.
Get medical advice/attention.

P273 – Avoid release to the environment.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P301/P315/P101 – IF SWALLOWED: Get immediate medical advice/attention.

If medical advice is needed, have product container or label at hand.