

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

Product Name: Regin Smoke Matches

Product Code: REGS05

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

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2015/830)

Matches, fusee / Smoke Matches

SECTION 1: Identification of the substance/mixture and of the company / undertaking

1.1. Product identifier

Product code REGS05

Synonyms None.

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

Use of the Substance/Mixture Fuel
For igniting solid fuels ...
Categories of users: professional AND private users.

Uses advised against No further relevant information available

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification Regin Products Ltd
8-12 Tower Square
Huntingdon
Cambridgeshire
PE29 7DT

sales@regin.co.uk

1.4. Emergency telephone number

Tox Info Suisse : [24h/7d]
Tel. 145 / +41 (0)44 251 51 51 – info@toxi.ch

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Acute toxicity, oral, Cat. 4, H302
Oxidising solids, Cat. 1, H271
Hazardous to the aquatic environment, chronic, Cat. 2, H411

Additional information

For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements



Signal Word

Danger

Hazard Statements

H271: May cause fire or explosion; strong oxidiser.
H302: Harmful if swallowed.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P312: Call a POISON CENTER/doctor if you feel unwell.
P273: Avoid release to the environment.

Supplemental information

None.

Product identifier

potassium chlorate, CAS-No. 3811-04-9, EC-No. 223-289-7
zinc oxide, CAS-No. 1314-13-2, EC-No. 215-222-5

Contents of package < 125 ml



Danger

H271: May cause fire or explosion; strong oxidiser.
H302: Harmful if swallowed.
P102: Keep out of reach of children.
P262: Do not get in eyes, on skin, or on clothing.
P220: Keep away from clothing and other combustible materials.

Packaging

Tactile warning of danger (EN/ISO 11683).
If available for private use:

2.3. Other hazards

Contact with combustible material may cause fire.

SECTION 3: Composition/information on ingredients

Chemical characterization

Formulated product.

Components		CLP Classification	Product identifier
potassium chlorate	50% - 75%	Acute Tox. 4 H332, Acute Tox. 4 H302, Aquatic Chronic 2 H411, Ox. Sol. 1 H271	CAS-No.: 3811-04-9 EC-No.: 223-289-7 Index-No: 017-004-00-3
zinc oxide	5% - 10%	Aquatic Acute 1 H400, Aquatic Chronic 1 H410	CAS-No.: 1314-13-2 EC-No.: 215-222-5 Index-No: 030-013-00-7

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities

None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Consult a physician for severe cases.

Skin contact

In case of burns apply cold water until pain subsides then seek medical advice. If skin irritation persists, call a physician.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Consult an ophthalmologist.

Ingestion

Rinse mouth. Obtain medical attention.

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

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use dry chemical, CO₂, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons

High volume water jet.

5.2. Special hazards arising from the substance or mixture	During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Oxidizing agents.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. Wear protective suit. In the event of fire and/or explosion do not breathe fumes.
Specific methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist may be used to cool closed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust. Remove all sources of ignition.
Advice for emergency responders	Use personal protective equipment. Remove all sources of ignition.

6.2. Environmental precautions Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal.

6.4. Reference to other sections See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/dust. Keep product and empty container away from heat and sources of ignition. Keep away from combustible material.
7.2. Conditions for safe storage, including any incompatibilities	Store in a place accessible by authorized persons only. Store in original container. Keep tightly closed in a dry and cool place. Storage class 5.1B.
7.3. Specific end use(s)	Use only in accordance with our recommendations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)	No data is available on the product itself.
zinc oxide (CAS 1314-13-2)	
Switzerland - Occupational Exposure Limits - TWAs - (MAKs)	3 mg/m3 TWA [MAK] (respirable dust, smoke)
Switzerland - Occupational Exposure Limits - STELs - (KZWs)	3 mg/m3 STEL [KZW] (respirable dust, smoke)

8.2. Exposure controls

Occupational exposure controls	Handle in accordance with good industrial hygiene and safety practice. General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Keep away from food, drink and animal feedingstuffs.
Personal protection equipment	
<i>Respiratory protection</i>	In case of good ventilation no personal respiratory protective equipment required.
<i>Hand protection</i>	Protective gloves complying with EN 374. PVC or other plastic material gloves.
<i>Eye protection</i>	Safety glasses with side-shields conforming to EN166. Eye wash bottle with pure water.
<i>Skin and body protection</i>	Long sleeved clothing.
Thermal hazards	Keep product and empty container away from heat and sources of ignition. Sustains combustion
Environmental exposure controls	Prevent product from entering surface water or sewage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Solid.
Colour	Dark brown.
Odour	None.
Odour Threshold	No information available.
pH:	not applicable
Melting point/range:	No information available.
Boiling point/range:	No information available.
Flash point:	flammable
Evaporation Rate:	No information available.
Flammability:	No information available.
Explosion limits:	No information available.
Vapour pressure:	No information available.
Vapor density:	No information available.

Relative density:	1.1
Water solubility:	practically insoluble
Partition coefficient (n-octanol/water):	No information available.
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Explosive properties:	solid, flammable
Oxidising properties:	oxidising

9.2. Other information

General Product Characteristics	No information available.
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SECTION 10: Stability and reactivity

10.1. Reactivity	Risk of ignition.
10.2. Chemical stability	No decomposition if stored and applied as directed. Risk of ignition.
10.3. Possibility of hazardous reactions	Dust may form explosive mixture in air.
10.4. Conditions to avoid	Heat, flames and sparks.
10.5. Incompatible materials	Flammable materials. Reducing agents.
10.6. Hazardous decomposition products	None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on the product itself. potassium chlorate (CAS 3811-04-9) Dermal LD50 Rabbit > 2000 mg/kg (IUCLID) Oral LD50 Rat = 1870 mg/kg (JAPAN_GHS) zinc oxide (CAS 1314-13-2) Oral LD50 Rat > 5000 mg/kg (IUCLID)
Skin corrosion/irritation	Negligible.
Serious eye damage/eye irritation	None.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Contains no ingredient listed as a carcinogen
Germ cell mutagenicity	Contains no ingredient listed as a mutagen.
Reproductive toxicity	Contains no ingredient listed as toxic to reproduction.

Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
Human experience	No data is available on the product itself.

SECTION 12: Ecological information

12.1. Toxicity	No data is available on the product itself.
potassium chlorate (CAS 3811-04-9)	
Ecotoxicity - Freshwater Fish -	96 h LC50 Pimephales promelas: 13500 mg/L
Acute Toxicity Data	96 h LC50 Oncorhynchus mykiss: 1750 mg/L
12.2. Persistence and degradability	Not readily biodegradable.
12.3. Bioaccumulative potential	No data is available on the product itself.
12.4. Mobility in soil	No data is available on the product itself.
12.5. Results of PBT and vPvB assessment	This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
12.6. Other adverse effects	Water contaminating class (CH): A

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Waste from residues / unused products	Dispose of in accordance with local regulations. Can be incinerated, when in compliance with local regulations. Waste disposal number 20 03 99.
Contaminated packaging	With urban waste collection.

SECTION 14: Transport information

ADR/RID	UN 2254 Proper shipping name: MATCHES, SAFETY. Class 4.1. Packing group III. ADR/RID-Labels 4.1+ENV. Environmentally hazardous: Yes Classification code F1. Limited quantity 5 kg. Excepted quantity E1. Tunnel restriction code E
IMDG	UN 2254 Proper shipping name: MATCHES, SAFETY, (book, card or strike on box). Class 4.1. Packing group III. IMDG-Labels 4.1+ENV. Limited quantity 5 kg. Excepted quantity E1. EmS F-A, S-I. Marine pollutant: Yes.
IATA	UN 2254 Proper shipping name: Matches, safety, (book, card or strike on box). Class 4.1. Packing group III. IATA label 4.1+ENV. Packing instruction (passenger aircraft): 455 (25 kg). Packing instruction (LQ): Y455 (10 kg). Packing instruction (cargo aircraft): 455 (100 kg).
Inland navigation ADN	UN 2254 Proper shipping name: MATCHES, SAFETY. Class 4.1. Packing group III. ADN labels 4.1+ENV. Classification code F1. Limited quantity 5 kg. Excepted quantity E1.
Further Information	None.

SECTION 15: Regulatory information

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

Regulatory Information Tonnage treshold (CH): 20'000 kg.

15.2. Chemical safety assessment A Chemical Safety Assessment is not required.

SECTION 16: Other information

Key or legend to abbreviations and acronyms CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)
MAK: Occupational exposure limit.

Key literature references and sources for data Information taken from reference works and the literature.

Classification procedure Calculation method.

Full text of phrases referred to under sections 2 and 3 H271: May cause fire or explosion; strong oxidiser.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H332: Harmful if inhaled.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.

Training advice Provide adequate information, instruction and training for operators.

Instructions for use Keep away from children.

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.