



MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 modified by Regulation (EU) No. 2020/878)

Version 4.0 Revision Date: 18.07.2022 - Supersedes: 01.06.2017

Generic EU MSDS – No country specific data

Safety Matches are defined as articles according to REACH (EC No.1907/2006) According to Article 31 of REACH, Safety Data Sheets are not required for articles.

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

1.1. Product identifiers

Product name: Woodstick safety matches

Substance/Mixture: Article

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

Identified uses: Fire ignition

1.3. Details of the supplier of the safety data sheet:

Company: STG France – Le capitole – 55 avenue des Champs pierreux – 92000 NANTERRE

Telephone: +33 1 55 17 72 50

Fax: +33 1 55 17 72 72

E-Mail address: Contact.LightsFrance@st-group.com

1.4. Emergency telephone number

Belgium tel.: 070/245.245 - Bulgaria tel.: +359 2 9154 233 - Czech Republic tel.: +420 224 919 293, +420 224 915 402 – Croatia tel.: +3851 2348 342 – Cyprus tel.: 1401 - Denmark tel.: +45 8212 1212- Estonia tel.: 16662 - Finland tel.: 0800 147 111 (the call is free of charge) or (09) 471 977 - France tel. ORFILA (INRS) : + 33 (0)1 45 42 59 59 - Greece tel.:(0030)2107793777 – Iceland tel.: 5432222; 5431000; 112 - Ireland tel.: 353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week); +353 (1) 809 2566 (24 hour service) - Lithuania tel.: +370 (85) 2362052 – Luxembourg tel.: (+352) 8002 5500 - Norway tel.:22 59 13 00 - Portugal tel.: +351 800 250 250 - Romania tel. +40213183606 - Slovakia tel.: +421 2 5477 4166 – Slovenia tel.: 112 - Spain tel.: + 34 91 562 04 20 - Sweden tel.: 112

SECTION 2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Not classified

2.2. Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3. Other

hazards In exceptional circumstances, such as severe impact or heavy striking on a smooth, nonthermally conducting surface, safety matches can ignite. Matches do not ignite when heated unless the temperature exceeds 180°C. The main hazard associated with matches arises because they are readily combustible and misuse may result in burns or uncontrolled fires.

Endocrine effects

The mixture does not contain any endocrine disrupting substances included in the list established per Article 59 (1).



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixtures

	CAS-No	EC-No	Index-No	REACH reg. No.	Classification (1272/2008/EC)	Content %	SCL, ATE, M-factor
Match:							
Potassium chlorate	3811-04-9	223-289-7	017-004-00-3	01-2119494917-18	Ox. Sol. 1; Acute Tox. 4; Aquatic Chronic 2; H271, H302, H332, H411	<1%	
Box/Book:							
Amorphous red phosphorous	7723-14-0	231-768-7	015-002-00-7	01-2119489913-23	Flam. Sol. 1; Aquatic Chronic 3; H228, H412	<1%	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice

Consult a physician. Show his safety data sheet to the doctor in attendance

If inhaled

If breathed the gases of decomposition in, move the person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Burns resulting from mishandling should be treated as normal burns. Place injured part under running cold water for 10 minutes. Do not break blisters or remove loose skin. Do not apply ointments or lotions. Dress area with clean, non-fluffy, sterile material. If in doubt seek medical attention.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Unless large quantities of matches are ingested (>10 matches per kilo of body weight) there is little risk to health following ingestion. If more than this quantity is ingested seek medical attention. Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

Ingestion:	Ingestion causes gastrointestinal discomfort, vomiting.
Inhalation:	Inhalation causes choking, the smoke causes respiratory tract irritation, cough.
Eyes:	Contact with eyes can cause irritation, redness, provokes tears. The burning head causes ocular lesion, consult a physician.
Skin:	The burning match head causes burn. Delayed effects: Not expected.

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



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No immediate medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Water and carbon dioxide are the most effective extinguishing media for match fires. Use water as a mist or spray; solid streams of water may be ineffective.

5.2. Special hazards arising from the substance or mixture

Match fires produce much smoke containing small quantities of acidic gases such as phosphorus oxides, hydrogen chloride gas, carbon oxides and soot.

5.3. Advice for fire-fighters

In large conflagrations involving matches breathing apparatus should be used.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from children. Remove all sources of ignition.

6.2. Environmental precautions

Discharge of significant quantities into the environment must be avoided.

6.3. Methods and materials for containment and cleaning up

If significant quantities of matches are released by breakage of the packaging then remove all sources of ignition and salvage any undamaged product. Wet the remaining product before clearing up and transfer to a container for disposal according to local regulations (see section 13.).

6.4. Reference to the other sections

For disposal see section 13

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from potential sources of ignition and other highly flammable materials - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2. Conditions for safe storage, including any incompatibilities

Matches should be stored in a cool dry place. They should not be stacked higher than 4.5 metres above the ground. Adequate space around the product should be left to minimise the chances of impact damage from, for example, manoeuvring fork lift trucks. Keep the match in its own box, must not store bulk.

7.3. Specific end uses

Fire ignition

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:



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8.1. Exposure limit values

There are not available exposure limit values of components. Suggested values: exposure limit value of inert dust; 15 mg/m³.

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good hygiene and safety practice. Wash hand before breaks and at the end of workday.

Personal protective equipment

Eye/face protection	Not required
Skin protection	Not required
Body protection	Not required
Respiratory protection	Not required
Heat danger	Do not touch the burn match head.

Environmental exposure control

Discharge of significant quantities into the environment must be avoided.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Form:	Solid
Colour:	Product-specific
Odour:	Odourless

Safety data

pH:	not applicable
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flash point:	no data available
Evaporation rate:	no data available
Flammability:	The substance or mixture is a flammable solid with the subcategory 4.1.
Upper/lower flammability or explosive limits:	no data available
Vapour pressure:	no data available
Vapour density:	no data available Relative density: 0.30 g/cm ³ at 25 °C
Water solubility:	Approximately 10 mg of each match is soluble in water.
Partition coefficient:	
n-octanol/water:	no data available
Autoignition temperature:	in excess of 180°C



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Decomposition temperature:	no data available
Viscosity: not applicable	
Explosive properties:	no data available
Oxidizing properties:	no data available

9.2. Other safety information

No data available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Under normal circumstance safety matches can be ignited only on the striking surface.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Match head ignite on the striking surface effect of friction.

10.4. Conditions to avoid

Heat, flames, sparks and extremes of temperature

10.5. Incompatible materials

Match head and striking surface.

10.6. Hazardous decomposition products

Hazardous decomposition products are formed under fire conditions such as phosphorus oxides, hydrogen chloride gas, carbon oxides and soot.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Potassium chlorate: LD50 Oral – rat – 7000 mg/kg

Phosphorous, red: LD50 Oral – rat – 1500 mg/kg

Skin corrosion/irritation

Potassium chlorate: Skin – rabbit – mild skin irritation

Serious eye damage/ eye irritation

Potassium chlorate: Eyes – rabbit – mild eye irritation

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available



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Carcinogenicity

No component of this product presents at levels greater than or equal to 0.1 % is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

11.2 Information on other hazards

Endocrine disrupting properties

See in 2.3

Other hazards:

No information.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish

Potassium chlorate: LC50 – *Oncorhynchus mykiss* (rainbow trout) – 1.750 mg/l – 96 h

Phosphorous, red: LC50 – *Lepomis macrochirus* (bluegill) – 0.005 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

Potassium chlorate: EC50 – *Daphnia magna* (Water flea) – 1.093 mg/l – 24 h

Phosphorous, red: EC50 – *Daphnia magna* (water flea) – 30 mg/l – 48 h

12.2. Persistence and degradability

No data available. Used matches and boxes biodegrade rapidly in the environment.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

See in 2.3

12.7. Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATION

13.1. Waste treatment methods Product



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Large quantities of matches can be safely disposed of to landfill at an approved site or by controlled combustion at an approved incinerator. Contaminated packaging Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

ADR/RID: 1944

IMDG: 1944

IATA: 1944

14.2. UN proper shipping name

ADR/RID: Matches,safety "Limited Quantity"

IMDG: Matches,safety "Limited Quantity"

IATA: Matches,safety "Limited Quantity"

14.3. Transport hazard class(es)

ADR/RID: 4.1

IMDG: 4.1

IATA: 4.1

14.4. Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5. Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

14.6. Special precautions for user

No data available

14.7. Maritime transport in bulk according to IMO instruments

Does not apply.

SECTION 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16. Other information

Text of H-code(s) mentioned in Section 3 Acute Tox.

Acute toxicity

Aquatic Chronic Chronic aquatic toxicity

Ox. Sol. Oxidizing solids

Flam. Sol.

Flammable solids

H228 Flammable solid.



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H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is only to describe the product. The data does not signify any warranty with regard to the products' properties.