

Safety Matches are defined as articles according to REACH (EG 1907/2006).

According to Article 31 of REACH, Safety Data Sheets are not required for articles.

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: Europe Match GmbH
Bakay Nándor u. 7-9.
H-6724 Szeged
Telephone: +36 62 887 319
Fax: +36 62 887 363
E-Mail address: info.sze@europematch.eu

1.4. Emergency telephone number:

Egészségügyi Toxikológiai Tájékoztató Szolgálat
Nagyvárad tér 2.
H-1097 Budapest
Tel: +36 1 476 6464 (Hungary)

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

GHS02

2.3. Other hazards

In exceptional circumstances, such as severe impact or heavy striking on a smooth, non-thermally 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

3.2. Mixtures

	CAS-No	EC-No	Index-No	REACH reg. No.	Classification (1272/2008/EC)	Content %
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.

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

No immediate medical attention.

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.

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.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

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.

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
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

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.

11. TOXICOLOGICAL INFORMATION:

11.1. Information on toxicological effects

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

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

Potential health effects

Skin: May cause skin irritation.
Eyes: May cause eye irritation.
Inhalation: May be harmful if inhaled.
Ingestion: May be harmful if swallowed.

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. Other adverse effects

No data available

13. DISPOSAL CONSIDERATION:**13.1. Waste treatment methods****Product**

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.

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

15. Regulatory information:

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

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.
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.