

Safetymatches

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

1.1. Product identifier

Name of product Safetymatches

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

Identified uses

Sector of uses [SU]

SU21 - Consumer uses: Private households (= general public = consumers)

Product categories [PC]

Igniter

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

PyroWillen GmbH
Schwandstrasse 13, PF 78, CH-3714 Frutigen
Phone +41 (0)33 671 20 71
E-Mail info@pyrowillen.com
Internet www.pyrowillen.com

Advice

This number is only available at office times.
Phone +41 (0)33 671 20 71

1.4. Emergency telephone number

Emergency advice

Swiss toxicological Information Center
Phone 145 / +41 44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazard statements for physical hazards

not applicable

Hazard statements for health hazards

not applicable

Hazard statements for environmental hazards

not applicable

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Additional hints

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

The safetymatches are considered as one product within the meaning of Article 3 of Regulation (EC) 1907/2006 (REACH) and are therefore not subject to mandatory labelling under Regulation (EC) 1272/2008 (CLP).

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard statements for physical hazards

not applicable

Safetymatches

Hazard statements for health hazards

not applicable

Hazard statements for environmental hazards

not applicable

Precautionary Statements

General

P102 Keep out of reach of children.

2.3. Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Hazardous ingredients

CAS No	EC No	Name	[%]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
3811-04-9	223-289-7	potassium chlorate		Ox. Sol. 1, H271 / Acute Tox. 4, H332 / Acute Tox. 4, H302 / Aquatic Chronic 2, H411
1314-13-2	215-222-5	zinc oxide		Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Upon contact with the eyes and face priority eyes care.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

If intensive inhalation of dust seek medical treatment immediately.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

Harmful effects caused by the product are not expected.

In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion

Induce the patient to vomit by him self only if fully conscious.

If swallowed seek medical advice immediately and show the doctor packing or label.

If swallowed by mistake drink plenty of water and seek medical treatment.

Rinse out mouth thoroughly with water.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Fire gas of organic material has to be classed invariably as respiratory poison.

In case of fire formation of dangerous gases possible.

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Additional information

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid contact with skin and eyes.

Do not breathe dust.

Keep people away and stay on the upwind side.

Avoid dust formation.

Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Moisten, take up mechanically and send for disposal.

After taking up the material dispose according to regulation.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No information available.

7.2. Conditions for safe storage, including any incompatibilities

No information available.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
1314-13-2	zinc oxide	8 hours Short-term	3a 3a		SUVA

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
1314-13-2	zinc oxide	0,8 mg/kg bw/day	DNEL long-term inhalative (systemic)	
		5 mg/m3	DNEL long-term inhalative (systemic)	
		83 mg/kg bw/day	DNEL long-term dermal (systemic)	

8.2. Exposure controls

Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus.

Particle-filtering half mask, filter P2, EN 149

Hand protection

No special measures necessary if used correctly.

Chemikalienschutzhandschuhe aus Butylkautschuk der Kategorie III gemäß EN 374.

Eye protection

safety goggles EN 166

Other protection measures

No special measures necessary if used correctly.

Appropriate engineering controls

Avoid the formation and deposition of dust.

Provide suitable extraction at the processing machines.

Care for thorough room ventilation, if necessary provide local air ventilation.

Keep away from sources of ignition - No smoking

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance solid	Colour dark brown	Odour odourless
Odour threshold not determined		

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
Boiling temperature / boiling range	not determined				
Melting point / Freezing point	not determined				
Flash point	not determined				
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	1.1 g/cm ³				
Vapour density	not determined				
Solubility in water	not determined				
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				

Oxidising properties

No information available.

Explosive properties

No information available.

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Self-ignition at high temperatures.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Keep away sources of ignition.

To avoid thermal decomposition do not overheat.

10.5. Incompatible materials

Substances to avoid

Reactions with strong oxidising agents.

Self-ignition at high temperatures.

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

10.6. Hazardous decomposition products

If heated dangerous gases/vapours may arise.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	No data available			
LD50 acute dermal	No data available			
LC50 acute inhalation	No data available			
Skin irritation	non-irritant			
Eye irritation	non-irritant			
Skin sensitization	non-sensitizing			

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Aspiration hazard

No data available

Additional information

The product was classified on the basis of the calculation procedure of the Regulation (EU) Nr. 1272/2008 (CLP).

No toxicological data available.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Biological degradability				not readily degradable
	The product is not readily biodegradable to OECD criteria but is inherently biodegradable.			

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

Behaviour in sewage plant

When discharged into biological sewage treatment plants, interference with the degradation activity of activated sludge is possible, depending on the local conditions and concentrations involved.

General regulation

Ecological data are not available.

Product is not allowed to be discharged into aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

20 03 99

Name of waste

municipal wastes not otherwise specified

Recommendations for the product

May be taken to household waste disposal or incineration plant, but care for official regulations.

Recommendations for packaging

Totally emptied packaging may be treated as household waste.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1944	1944	1944

Safetymatches

	ADR/RID	IMDG	IATA-DGR
14.2. UN proper shipping name	MATCHES, SAFETY	MATCHES, SAFETY	MATCHES, SAFETY
14.3. Transport hazard class(es)	4.1	4.1	4.1
14.4. Packing group	III	III	III
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

Land and inland navigation transport ADR/RID

Hazard label(s) 4.1

tunnel restriction code E

Classification code F1

SECTION 15: Regulatory information

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

National regulations

Water hazard class 1
slightly hazardous to waters, self-classification

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

H271 May cause fire or explosion; strong oxidiser.
H302 Harmful if swallowed.
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.