

Safetymatches

Print date 12.06.2024
Revision date 12.06.2024
Version 1.1 (en)
replaces version of 11.05.2020 (1.0)

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

1.1 Product identifier

Trade name/designation Safetymatches

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

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

Supplier

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

Department responsible for information:
This number is only available at office times.
Telephone +41 (0)33 671 20 71

1.4 Emergency telephone number

Swiss toxicological Information Center 145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Remark

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

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]

Precautionary statements

P102 Keep out of reach of children.

2.3 Other hazards

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Results of PBT and vPvB assessment

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

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SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous ingredients

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
3811-04-9	223-289-7	017-004-00-3	potassium chlorate	weight-%	Ox. Sol. 1; H271 Acute Tox. 4 ; H332 Acute Tox. 4 ; H302 Aquatic Chronic 2; H411	ATE(oral): 500 mg/kg ATE(Acute inhalation toxicity): 11 mg/L
1314-13-2	215-222-5	030-013-00-7	zinc oxide	weight-%	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.

Following inhalation

Remove casualty to fresh air and keep warm and at rest.
If intensive inhalation of dust seek medical treatment immediately.
In the event of symptoms refer for medical treatment.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.
Harmful effects caused by the product are not expected.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following 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, immediately drink:
Water
Seek medical advice immediately.
Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam
Extinguishing powder
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Fire gas of organic material has to be classed invariably as respiratory poison.
In case of fire formation of dangerous gases possible.
Carbon monoxide
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.
Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

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.
Remove all sources of ignition.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Moisten, take up mechanically and send for disposal.
After taking up the material dispose according to regulation.

6.4 Reference to other sections

No data available

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

No data available

7.2 Conditions for safe storage, including any incompatibilities

No data available

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No	EC No	Substance name	occupational exposure limit value
1314-13-2	215-222-5	Zinc oxide, fume or respirable dust	2 [mg/m ³] Short-term(mg/m ³) 10 (1) (1) 15 minutes reference period (IE)
1314-13-2	215-222-5	Zinc oxide, fume or respirable dust	5 [mg/m ³] Short-term(mg/m ³) 10 (UK)
1314-13-2	215-222-5	zinc oxide	3a [mg/m ³] Short-term(mg/m ³) 3a SUVA

DNEL worker

CAS No	Substance name	DNEL value	DNEL type	Remark
1314-13-2	zinc oxide	0.8 mg/kg bw/day	long-term inhalative (systemic)	
1314-13-2	zinc oxide	5 mg/m ³	long-term inhalative (systemic)	
1314-13-2	zinc oxide	83 mg/kg bw/day	long-term dermal (systemic)	
1314-13-2	zinc oxide	0.8 mg/kg bw/day	long-term inhalative (systemic)	
1314-13-2	zinc oxide	5 mg/m ³	long-term inhalative (systemic)	
1314-13-2	zinc oxide	83 mg/kg bw/day	long-term dermal (systemic)	
1314-13-2	zinc oxide	0.8 mg/kg bw/day	long-term inhalative (systemic)	
1314-13-2	zinc oxide	5 mg/m ³	long-term inhalative (systemic)	
1314-13-2	zinc oxide	83 mg/kg bw/day	long-term dermal (systemic)	

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8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

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

Personal protection equipment

Eye/face protection

safety goggles EN 166

Hand protection

No special measures necessary if used correctly.
Chemical protective gloves made of butyl rubber of category III according to EN 374.

Body protection:

No special measures necessary if used correctly.

Respiratory protection

Respiratory protection necessary at:
insufficient exhaust
prolonged exposure
Particle-filtering half mask, filter FFP2, EN 149

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

solid

Colour

dark brown

Odour

odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		

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	Value	Method	Source, Remark
Solubility(ies)	not determined		
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	1.1 g/cm ³		
Relative vapour density	not determined		
particle characteristics	not determined		

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

In case of exceeding the storage temperature:
 Danger of spontaneous combustion

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

Oxidising agent, strong
 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 hazard classes as defined in Regulation (EC) No 1272/2008

*** Acute toxicity**

*** Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	CAS No3811-04-9 potassium chlorate 500 mg/kg		
Acute dermal toxicity	not determined		
Acute inhalation toxicity	CAS No3811-04-9 potassium chlorate LC50: 11 mg/L		

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Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
non-irritant.		

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
non-irritant.		

Sensitisation to the respiratory tract

not determined

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.			

Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

STOT-single exposure

not determined

STOT-repeated exposure

not determined

Aspiration hazard

Remark

No data available

11.2 Information on other hazards

Other information

The product was classified on the basis of the calculation procedure of the Regulation (EU) Nr. 1272/2008 (CLP).
 Toxicological data are not available.

*** SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		

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	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation			Not readily biodegradable (according to OECD criteria)

12.3 Bioaccumulative potential

Assessment/classification

No data available

12.4 Mobility in soil

Assessment/classification

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 Endocrine disrupting properties**

No data available

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

Ecological data are not available.

Product is not allowed to be discharged into aquatic environment.

Depending on local conditions and existing concentrations, in the case of discharge in biological sewage plants, problems in the decomposition activity of activated sludge are possible.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
200399	municipal wastes not otherwise specified

Appropriate disposal / Product

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

Appropriate disposal / Package

Totally emptied packaging may be treated as household waste.

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SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1944	UN 1944	UN 1944
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 data available		
14.7 Maritime transport in bulk according to IMO instruments	No data available		

Land transport (ADR/RID)

UN number or ID number UN 1944
 UN proper shipping name MATCHES, SAFETY
 Transport hazard class(es) 4.1
 Hazard label(s) 4.1
 Classification code F1
 Packing group III
 Environmental hazards No
 Limited quantity (LQ) 5 kg
 Special provisions 293
 Tunnel restriction code E

Sea transport (IMDG)

UN number or ID number UN 1944
 UN proper shipping name MATCHES, SAFETY
 Transport hazard class(es) 4.1
 Packing group III
 Environmental hazards No
 Limited quantity (LQ) 5 kg
 Marine pollutant No
 EmS F-A, S-I

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number UN 1944
 UN proper shipping name Matches, safety
 Transport hazard class(es) 4.1
 Packing group III
 Environmental hazards No

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SECTION 15: Regulatory information

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

No data available

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Additional information

National and local regulations concerning chemicals shall be observed. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

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.

Indication of changes

* Data changed compared with the previous version