

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
OSHA GHS

Printing date: 14.09.2016

Revision: 14.09.2016

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

### · 1.1 Product identifier

· **Trade name:** Zippo Typhoon Matches

· **Product code:** No other identifiers

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

### · 1.3 Details of the supplier of the Safety Data Sheet

#### · **Manufacturer/Supplier:**

Zippo Manufacturing Company  
33 Barbour Street  
Bradford, PA 16701 USA  
Tel +1 814 368 2700



Only representative of a non-Community manufacturer  
INTERTEK FRANCE  
ZAC Ecoparc II  
27400, HEUDEBOUVILLE  
France  
Tel +33 2 32 09 36 36

### · 1.4 Emergency telephone number:

ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

## SECTION 2: Hazards identification

### · 2.1 Classification of the substance or mixture

#### · **Classification according to Regulation (EC) No 1272/2008**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

Flam. Sol. 2	H228 Flammable solid.
Ox. Sol. 3	H272 May intensify fire; oxidiser.
Acute Tox. 4	H332 Harmful if inhaled.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

### · 2.2 Label elements

#### · **Labelling according to Regulation (EC) No 1272/2008**

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

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- **Hazard pictograms**



GHS02 GHS03 GHS07 GHS09

- **Signal word** Warning

- **Hazard-determining components of labelling:**

potassium chlorate  
Rosin

- **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

H228 Flammable solid.

H272 May intensify fire; oxidiser.

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

The following Precautionary Statements are applicable only to the EU regulations and not the US GHS regulation: P273.

P221 Take any precaution to avoid mixing with combustibles.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P273 Avoid release to the environment.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **NFPA ratings (scale 0 - 4)** This substance possesses oxidizing properties.

- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Components:**

CAS: 3811-04-9	potassium chlorate	40-60%
EINECS: 223-289-7	Ox. Sol. 1, H271	
Index number: 017-004-00-3	Aquatic Chronic 2, H411	
	Acute Tox. 4, H302; Acute Tox. 4, H332	

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CAS: 14808-60-7	quartz substance with a Community workplace exposure limit	10-20%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-5%
CAS: 1309-37-1 EINECS: 215-168-2	diiron trioxide / iron (III) oxide substance with a Community workplace exposure limit	1-5%
CAS: 9005-25-8 EINECS: 232-679-6	starch substance with a Community workplace exposure limit	1-5%
CAS: 61790-53-2	Diatomaceous earth (Silica-Amorphous) substance with a Community workplace exposure limit	1-5%
CAS: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7	Rosin ⚠ Skin Sens. 1, H317	1-5%
CAS: 21645-51-2 EINECS: 244-492-7	aluminium hydroxide substance with a Community workplace exposure limit	1-5%
CAS: 10043-35-3 EINECS: 233-139-2 Index number: 005-007-00-2	boric acid ⚠ Repr. 1B, H360FD	≤1,0%

· **SVHC**

10043-35-3	boric acid
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· **Additional information:**

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.  
For the wording of the listed Hazard Statements refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Generally the product does not irritate the skin.

If skin irritation or rash occurs: Get medical advice/attention.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions

· **Hazards:** May be harmful if swallowed.

· **4.3 Indication of any immediate medical attention and special treatment needed**

Medical supervision for at least 48 hours.

Contains Rosin. May produce an allergic reaction.

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If medical advice is needed, have product container or label at hand.

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## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**  
Flammable solid.  
May intensify fire; oxidiser.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:** Eliminate all ignition sources if safe to do so.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Remove ignition sources.  
Keep/Store away from clothing/combustible materials.
- **6.2 Environmental precautions**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **6.3 Methods and material for containment and cleaning up**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Use only in well ventilated areas.
- **Information about fire - and explosion protection:**  
Substance/product can reduce the ignition temperature of flammable substances.  
Flammable solid.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.

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- **Information about storage in one common storage facility:**  
Protect from humidity and water.  
Store away from foodstuffs.  
Store away from flammable substances.  
Store away from oxidisers, strong acids, strong bases.
- **Further information about storage conditions:** Protect from humidity and water.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

##### **14808-60-7 quartz**

PEL (USA)	see Quartz listing
REL (USA)	Long-term value: 0,05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0,025* mg/m <sup>3</sup> *as respirable fraction

##### **1314-13-2 zinc oxide**

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction and fume
REL (USA)	Short-term value: 10** mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> Ceiling limit: 15* mg/m <sup>3</sup> *dust only **fume
TLV (USA)	Short-term value: 10* mg/m <sup>3</sup> Long-term value: 2* mg/m <sup>3</sup> *as respirable fraction

##### **1309-37-1 diiron trioxide / iron (III) oxide**

PEL (USA)	Long-term value: 10* 15** 5*** mg/m <sup>3</sup> *Fume; Rouge: **Total dust, ***respirable
REL (USA)	Long-term value: 5 mg/m <sup>3</sup> Dust & fume, as Fe
TLV (USA)	Long-term value: 5* mg/m <sup>3</sup> *as respirable fraction

##### **9005-25-8 starch**

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>

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**61790-53-2 Diatomaceous earth (Silica-Amorphous)**

 PEL (USA) | 20mppcf or 80mg/m<sup>3</sup> /%SiO<sub>2</sub>

 REL (USA) | Long-term value: 6 mg/m<sup>3</sup>  
See Pocket Guide App. C

TLV (USA) | TLV withdrawn

**8050-09-7 Rosin**

TLV (USA) | DSEN, RSEN, L

**21645-51-2 aluminium hydroxide**

 REL (USA) | Long-term value: 2 mg/m<sup>3</sup>  
as Al

 TLV (USA) | Long-term value: 1\* mg/m<sup>3</sup>  
as Al;\*as respirable fraction

**10043-35-3 boric acid**

 TLV (USA) | Short-term value: 6\* mg/m<sup>3</sup>  
Long-term value: 2\* mg/m<sup>3</sup>  
\*as inhalable fraction

- **DNELs:** No further relevant information available.
- **PNECs:** No further relevant information available.

**8.2 Exposure controls**
**Personal protective equipment:**
**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Respiratory protection:** Not required under normal conditions of use.
- **Protection of hands:** Gloves not required under normal conditions of use.
- **Eye protection:** Follow relevant national guidelines concerning the use of protective eyewear.
- **Body protection:** Not required under normal conditions of use.
- **Limitation and supervision of exposure into the environment:**  
No further relevant information available.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**
**Appearance**

Form: Solid material

Colour: Red

Odour: Characteristic

Odour threshold: Not determined.

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· <b>pH-value:</b>	Not applicable.
· <b>Melting point/Melting range:</b>	Not determined.
· <b>Boiling point/Boiling range:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Flammable solid.
· <b>Auto/Self-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Danger of explosion:</b>	Explosive when mixed with combustible material.
· <b>Explosion limits</b> Lower:	Not determined.
Upper:	Not determined.
· <b>Oxidising properties</b>	Oxidizer
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C (68 °F):</b>	2,4-2,6 g/cm <sup>3</sup> (20,028-21,69 lbs/gal)
· <b>Relative density:</b>	Not determined.
· <b>Vapour density:</b>	Not applicable.
· <b>Evaporation rate:</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b> Dynamic:	Not applicable.
Kinematic:	Not applicable.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Flammable solid.  
May intensify fire; oxidiser.  
Reacts with strong acids and alkali.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials** No further relevant information available.
- **10.6 Hazardous decomposition products**  
Chlorine compounds

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 Carbon monoxide and carbon dioxide  
 Toxic metal oxide smoke

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## SECTION 11: Toxicological information

### · 11.1 Information on toxicological effects

#### · Acute toxicity:

Harmful if inhaled.

#### · LD/LC50 values relevant for classification:

##### ATE (Acute Toxicity Estimates)

Oral	LD50	3688 mg/kg (rat)
Inhalative	LC50/4h	3 mg/l

##### 3811-04-9 potassium chlorate

Oral	LD50	1870 mg/kg (rat)
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##### 1314-13-2 zinc oxide

Oral	LD50	> 5000 mg/kg (rat)
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##### 10043-35-3 boric acid

Oral	LD50	2660 mg/kg (rat)
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#### · Primary irritant effect

· **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.

#### · Respiratory or skin sensitisation:

May cause an allergic skin reaction.

#### · Carcinogenic categories

##### · IARC (International Agency for Research on Cancer):

14808-60-7	quartz	1
1309-37-1	diiron trioxide / iron (III) oxide	3

##### · NTP (National Toxicology Program):

14808-60-7	quartz	K
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##### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

#### · Probable routes of exposure:

Ingestion.

Inhalation

Eye contact.

Skin contact.

#### · Acute effects (acute toxicity, irritation and corrosivity):

Harmful if inhaled.

May be harmful if swallowed.

· **Repeated dose toxicity:** Repeated exposure may result in skin sensitivity.

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

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- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Toxic for aquatic organisms
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

- **14.1 UN-Number**
- **DOT, ADR, IMDG, IATA** UN1944

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· **14.2 UN proper shipping name**

· DOT Matches, safety  
· ADR, IMDG, IATA MATCHES, SAFETY

· **14.3 Transport hazard class(es)**

· DOT



· Class 4.1 Flammable solids, self-reactive substances and solid desensitised explosives.  
· Label 4.1

· ADR



· Class 4.1 (F1) Flammable solids, self-reactive substances and solid desensitised explosives.  
· Label 4.1

· IMDG, IATA



· Class 4.1 Flammable solids, self-reactive substances and solid desensitised explosives.  
· Label 4.1

· **14.4 Packing group**

· DOT, ADR, IMDG, IATA III

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Warning: Flammable solids, self-reactive substances and solid desensitised explosives.

· Danger code (Kemler):

· EMS Number: F-A,S-I

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

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· **Transport/Additional information:**

· **ADR**

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· **Transport category**

4

· **Tunnel restriction code**

E

## SECTION 15: Regulatory information

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

· **United States (USA)**

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

Substance / component not listed individually, but listed under family group as Zinc salts.

1314-13-2	zinc oxide
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· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

14808-60-7	quartz
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· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

1314-13-2	zinc oxide	D, I, II
10043-35-3	boric acid	I (oral)

· **IARC (International Agency for Research on Cancer)**

14808-60-7	quartz	1
1309-37-1	diiron trioxide / iron (III) oxide	3
61790-53-2	Diatomaceous earth (Silica-Amorphous)	3

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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	quartz
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· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients are listed.
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **National regulations:**

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

- **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

10043-35-3	boric acid
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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H271 May cause fire or explosion; strong oxidiser.
- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H360FD May damage fertility. May damage the unborn child. Route of exposure: Oral.
- 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.

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 LDLo: Lowest Lethal Dose Observed

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Flam. Sol. 2: Flammable solids – Category 2

Ox. Sol. 1: Oxidizing solids – Category 1

Ox. Sol. 3: Oxidizing solids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 1B: Reproductive toxicity – Category 1B

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

**Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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