



# SAFETY DATA SHEET

Stormproof Matches

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Stormproof Matches

### Other means of identification

**Synonyms** Item No. 20-713-01; Item No. 95-MV-ST  
Windproof Matches; Waterproof Matches; Survival Matches; Safety Matches.

### Recommended use of the chemical and restrictions on use

**Recommended Use** Produces flame outdoors in severe weather conditions for camping or emergency use.

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** UST Brands  
**Supplier Address** 7720 Philips Highway  
Jacksonville  
Florida  
32256  
USA  
**Supplier Phone Number** Phone:904-786-0033  
Fax:904-786-0890  
**Supplier Email** sales@ustbrands.com

### Emergency telephone number

INFOTRAC USA or Canada: 1-800-535-5053 International: 1-352-323-3500

## 2. HAZARDS IDENTIFICATION


### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1
Flammable solids	Category 2

**GHS Label elements, including precautionary statements**

**Emergency Overview**

<b>Signal word</b>	<b>Danger</b>
<b>Hazard Statements</b>	
Fatal if swallowed Toxic in contact with skin Harmful if inhaled Causes skin irritation Causes serious eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May cause genetic defects May cause cancer May damage fertility or the unborn child Flammable solids	
	
<b>Appearance</b> Solid	<b>Physical State</b> Solid
<b>Odor</b> Woody	

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Use only outdoors or in a well-ventilated area  
 In case of inadequate ventilation wear respiratory protection  
 Contaminated work clothing should not be allowed out of the workplace  
 Keep away from flames and hot surfaces - no smoking  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ ventilating/ lighting/ equipment

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 Specific treatment (see supplemental first aid instructions on this label)

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention



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## Skin

IF ON SKIN: Wash with plenty of soap and water  
Call a POISON CENTER or doctor/physician if you feel unwell  
Remove/Take off immediately all contaminated clothing  
Wash contaminated clothing before reuse  
If skin irritation or rash occurs: Get medical advice/attention

## Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

## Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Rinse mouth

## Fire

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

## Precautionary Statements - Storage

Store locked up

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Not applicable

## Unknown Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

## Other information

Toxic to aquatic life with long lasting effects  
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons  
PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION  
Stormproof matches will continue to burn until the combustible fuel on the match stick is exhausted even when immersed in water.  
This takes approximately 15 seconds per match stick.

## Interactions with Other Chemicals

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Phosphorus	7723-14-0	60 - 100	*
Potassium chlorate	3811-04-9	40 - 70	*
Lead tetraoxide	1314-41-6	10 - 30	*
Sulfur	7704-34-9	3 - 7	*
Potassium dichromate	7778-50-9	1 - 5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret



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## 4. FIRST AID MEASURES

### First aid measures

#### General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical attention/advice.

#### Skin Contact

Removal of solidified molten material from skin requires medical assistance.

#### Inhalation

Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If not breathing, give artificial respiration.

#### Ingestion

Do NOT induce vomiting. Rinse mouth. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. May produce an allergic reaction. If an allergic reaction occurs, stop use and seek medical help right away.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and Effects** Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically. May cause sensitization of susceptible persons.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Dry chemical, CO<sub>2</sub>, sand, earth, water spray or regular foam. Water spray, fog or regular foam.

### Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific Hazards Arising from the Chemical

Some may burn rapidly with flare burning effect. Powders, dusts, shavings, borings, turnings or cuttings may explode or burn with explosive violence. Substance may be transported in a molten form.



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**Uniform Fire Code**

Sensitizer: Solid  
Oxidizer: Class 1--Solid  
Highly Toxic: Solid

**Hazardous Combustion Products**

Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** Yes.

**Protective equipment and precautions for firefighters**

Move containers from fire area if you can do it without risk.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. See section 8 for more information. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid generation of dust. Do not breathe dust.

**Other Information**

Refer to protective measures listed in Sections 7 and 8. Ventilate the area.

**Environmental Precautions****Environmental Precautions**

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods and material for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways.

**Methods for cleaning up**

Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.



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## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

### Conditions for safe storage, including any incompatibilities

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Protect from moisture. Store away from other materials. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

#### Incompatible Products

Strong acids. Strong oxidizing agents. Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphorus 7723-14-0	-	(vacated) TWA: 0.1 mg/m <sup>3</sup> Phosphorus (yellow)	IDLH: 5 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>
Lead tetraoxide 1314-41-6	TWA: 0.05 mg/m <sup>3</sup> Pb	TWA: 50 µg/m <sup>3</sup> Pb Action Level: 30 µg/m <sup>3</sup> Pb Poison, See 29 CFR 1910.1025	IDLH: 100 mg/m <sup>3</sup> Pb TWA: 0.050 mg/m <sup>3</sup> Pb
Potassium dichromate 7778-50-9	TWA: 0.05 mg/m <sup>3</sup> Cr	TWA: 5 µg/m <sup>3</sup> Action Level: 2.5 µg/m <sup>3</sup> Cr (vacated) Ceiling: 0.1 mg/m <sup>3</sup> Ceiling: 0.1 mg/m <sup>3</sup> CrO <sub>3</sub> applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect	IDLH: 15 mg/m <sup>3</sup> Cr(VI) TWA: 0.001 mg/m <sup>3</sup> Cr

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

#### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters



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## Appropriate engineering controls

**Engineering Measures**                      Showers  
    Eyewash stations  
    Ventilation systems

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection**                      None required for consumer use. If splashes are likely to occur: Tight sealing safety goggles.

**Skin and Body Protection**                      Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves. Chemical resistant apron. Antistatic boots.

**Respiratory Protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures**                              Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. No information available. Regular cleaning of equipment, work area and clothing is recommended. Do not breathe dust. Contaminated work clothing should not be allowed out of the workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical State</b>	Solid	<b>Odor</b>	Woody
<b>Appearance</b>	Solid	<b>Odor Threshold</b>	No information available
<b>Color</b>	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	No data available	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	May ignite and catch fire at temperatures above 170 °C (338 °F) or on contact with strong acids.
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	Partially soluble	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	170 °C (338 °F)	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known



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<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

## Other Information

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Excessive heat. Heat, flames and sparks.

### Incompatible materials

Strong acids. Strong oxidizing agents. Strong bases.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information. .
<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Toxic by inhalation. (based on components). May cause sensitization of susceptible persons. Harmful by inhalation.
<b>Eye Contact</b>	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation.





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## Skin Contact

Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation. May be fatal if absorbed through skin. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

## Ingestion

Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be fatal if swallowed. (based on components). May cause additional affects as listed under "Inhalation". Toxic if swallowed.

## Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphorus 7723-14-0	= 3.03 mg/kg ( Rat )	= 100 mg/kg ( Rat )	= 4.3 mg/L ( Rat ) 1 h
Potassium chlorate 3811-04-9	= 1870 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
Sulfur 7704-34-9	> 3000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 9.23 mg/L ( Rat ) 4 h

## Information on toxicological effects

### Symptoms

Erythema (skin redness). May cause redness and tearing of the eyes. Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

### Sensitization

May cause sensitization of susceptible persons. May cause sensitization by skin contact. May cause sensitization by inhalation.

### Mutagenic Effects

There is no data available for this product. Contains a known or suspected mutagen.

### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Lead tetraoxide 1314-41-6	A3	Group 2A	Reasonably Anticipated	X
Potassium dichromate 7778-50-9	A1	Group 1	Known	X

#### ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A3 - Animal Carcinogen

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

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

#### NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

#### OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

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Revision Date: Dec 15/2014

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<b>Reproductive Toxicity</b>	Contains a known or suspected reproductive toxin.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).
<b>Chronic Toxicity</b>	Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions. Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very susceptible persons. Contains a known or suspected mutagen. Possible risk of irreversible effects. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.
<b>Target Organ Effects</b>	Respiratory system. Eyes. Skin. Systemic Toxicity. May affect the genetic material in germ cells (sperm and eggs). Gastrointestinal tract (GI). Reproductive System. Blood. Jaw. Kidney. Liver. Lungs. Teeth. Heart.
<b>Aspiration Hazard</b>	No information available.

## Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)**

6.77 mg/kg

**ATEmix (dermal)**

223.00 mg/kg (ATE)

**ATEmix (inhalation-gas)**

5652.00 ppm (4 hr)

**ATEmix (inhalation-dust/mist)**

1.13 mg/l

**ATEmix (inhalation-vapor)**

16.94 ATEmix

### 12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a severe marine pollutant according to DOT

#### Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Phosphorus 7723-14-0		96h LC50: 0.0017 - 0.0035 mg/L (Lepomis macrochirus) 96h LC50: 0.001 - 0.004 mg/L (Lepomis macrochirus) 96h LC50: > 100 mg/L (Brachydanio rerio) 96h LC50: 0.015 - 0.032 mg/L (Oncorhynchus mykiss) 96h LC50: 0.011 - 0.028 mg/L (Pimephales promelas)		48h EC50: 0.025 - 0.037 mg/L 48h EC50: = 0.03 mg/L
Potassium chlorate 3811-04-9		96h LC50: = 13500 mg/L (Pimephales promelas) 96h LC50: = 1750 mg/L (Oncorhynchus mykiss)		24h EC50: = 1093 mg/L
Lead tetraoxide 1314-41-6		96h LC50: > 56000 mg/L (Gambusia affinis)		
Sulfur 7704-34-9		96h LC50: = 866 mg/L (Brachydanio rerio) 96h LC50: < 14 mg/L (Lepomis macrochirus) 96h LC50: > 180 mg/L (Oncorhynchus mykiss)		
Potassium dichromate 7778-50-9		96h LC50: = 320 mg/L (Lepomis macrochirus) 96h LC50: 65.6 - 137.6 mg/L (Lepomis macrochirus) 96h LC50: 113.6 - 155.7 mg/L (Lepomis macrochirus) 96h LC50: 14 - 20.9 mg/L (Pimephales promelas) 96h LC50: 24.81 - 34.55 mg/L (Poecilia reticulata) 96h LC50: = 26 mg/L (Morone saxatilis) 96h LC50: 23 - 41.2 mg/L (Poecilia reticulata) 96h LC50: 15.41 - 30.36 mg/L (Pimephales promelas) 96h LC50: 21.209 - 30.046 mg/L (Oryzias latipes) 96h LC50: = 12.3 mg/L (Oncorhynchus mykiss) 96h LC50: > 139 mg/L (Cyprinus carpio)		



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### Persistence and Degradability

No information available.

### Bioaccumulation

No information available

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Disposal methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Dispose of contents/containers in accordance with local regulations.

**US EPA Waste Number** D001 D007 D008

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Potassium dichromate 7778-50-9			D007	

### California Hazardous Waste Codes 141

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Phosphorus 7723-14-0	Toxic Ignitable Reactive
Lead tetraoxide 1314-41-6	Toxic
Potassium dichromate 7778-50-9	Toxic Corrosive Ignitable



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## 14. TRANSPORT INFORMATION

### DOT

<b>UN-No.</b>	UN1944
<b>Proper Shipping Name</b>	MATCHES, SAFETY
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	This product contains a chemical which is listed as a severe marine pollutant according to DOT
<b>Description</b>	UN1944, MATCHES, SAFETY, 4.1, III
<b>Emergency Response Guide Number</b>	133

### TDG

<b>UN-No.</b>	UN1944
<b>Proper Shipping Name</b>	MATCHES, SAFETY MIXTURE
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	This product contains a chemical which is listed as a severe marine pollutant according to TDG.
<b>Description</b>	UN1944, MATCHES, SAFETY MIXTURE, 4.1, III

### MEX

<b>UN-No.</b>	UN1944
<b>Proper Shipping Name</b>	MATCHES, SAFETY MIXTURE
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	III
<b>Description</b>	UN1944, MATCHES, SAFETY MIXTURE, 4.1, III

### ICAO

<b>UN-No.</b>	UN1944
<b>Proper Shipping Name</b>	MATCHES, SAFETY MIXTURE
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	III
<b>Description</b>	UN1944, MATCHES, SAFETY MIXTURE, 4.1, III

### IATA

<b>UN-No.</b>	UN1944
<b>Proper Shipping Name</b>	MATCHES, SAFETY MIXTURE
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	III
<b>Description</b>	UN1944, MATCHES, SAFETY MIXTURE, 4.1, III



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## IMDG/IMO

<b>UN-No.</b>	UN1944
<b>Proper Shipping Name</b>	MATCHES, SAFETY MIXTURE
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	III
<b>EmS No.</b>	F-A, S-I
<b>Marine Pollutant</b>	This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO Product is a marine pollutant according to the criteria set by IMDG/IMO
<b>Description</b>	UN1944, MATCHES, SAFETY MIXTURE, 4.1, III

## RID

<b>UN-No.</b>	UN1944
<b>Proper Shipping Name</b>	MATCHES, SAFETY MIXTURE
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	III
<b>Classification code</b>	F1
<b>Description</b>	UN1944, MATCHES, SAFETY MIXTURE, 4.1, III

## ADR

<b>UN-No.</b>	UN1944
<b>Proper Shipping Name</b>	MATCHES, SAFETY MIXTURE
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	III
<b>Classification code</b>	F1
<b>Tunnel restriction code</b>	(E)
<b>Description</b>	UN1944, MATCHES, SAFETY MIXTURE, 4.1, III

## ADN

<b>UN-No.</b>	UN1944
<b>Proper Shipping Name</b>	MATCHES, SAFETY MIXTURE
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	III
<b>Classification code</b>	F1
<b>Special Provisions</b>	293
<b>Description</b>	UN1944, MATCHES, SAFETY MIXTURE, 4.1, III
<b>Limited Quantity</b>	5 KG

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



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## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Phosphorus - 7723-14-0	7723-14-0	60 - 100	1.0
Lead tetraoxide - 1314-41-6	1314-41-6	10 - 30	0.1
Potassium dichromate - 7778-50-9	7778-50-9	1 - 5	0.1

### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphorus 7723-14-0	1 lb			X
Lead tetraoxide 1314-41-6		X		
Potassium dichromate 7778-50-9	10 lb	X		X

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Phosphorus 7723-14-0	1 lb	1 lb	RQ 1 lb final RQ RQ 0.454 kg final RQ
Potassium dichromate 7778-50-9	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ

## US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Lead tetraoxide - 1314-41-6	Carcinogen Developmental
Potassium dichromate - 7778-50-9	Carcinogen Developmental Female Reproductive Male Reproductive

# SAFETY DATA SHEET

Stormproof Matches

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Phosphorus 7723-14-0	X	X	X	X	X
Potassium chlorate 3811-04-9	X	X	X		
Lead tetraoxide 1314-41-6	X	X	X	X	X
Sulfur 7704-34-9	X	X	X		
Potassium dichromate 7778-50-9	X	X	X	X	X

## International Regulations

### Mexico

#### National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Phosphorus 7723-14-0 ( 60 - 100 )		Mexico: TWA 0.1 mg/m <sup>3</sup> Mexico: STEL 0.3 mg/m <sup>3</sup>
Lead tetraoxide 1314-41-6 ( 10 - 30 )	A3	Mexico: TWA 0.15 mg/m <sup>3</sup>
Potassium dichromate 7778-50-9 ( 1 - 5 )	A1	Mexico: TWA 0.05 mg/m <sup>3</sup> Mexico: TWA 0.5 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

A1 - Confirmed Human Carcinogen

A3 - Confirmed Animal Carcinogen

### Canada

#### WHMIS Hazard Class

B4 - Flammable solid

D2A - Very toxic materials

D2B - Toxic materials







# SAFETY DATA SHEET

Stormproof Matches

## 16. OTHER INFORMATION

NFPA	Health Hazards	3	Flammability	1	Instability	1	Physical and Chemical Hazards
HMIS	Health Hazards	3 *	Flammability	1	Physical Hazard	1	OX
							Personal Protection
							X

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

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**Issue Date** 2-Oct-2013

**Revision C**  
**Revision Date** 19-Sep-2014  
**Revision Note** Revision C is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

**Revision D**  
**Revision Date** 15-Dec-2014  
**Revision Note** Revised Sections 12 and 13 in their entirety.

**Disclaimer of Liability:** Since conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information contained in this SDS is believed to be true and accurate. All statements or suggestions are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the product, or the results to be obtained from the use thereof. Compliance with all federal, state, and local laws and regulations remains the responsibility of the user.

**User Responsibility:** This SDS cannot cover all possible situations which the distributor, retailer, or end user may experience during transport, storage, processing, or use. The user should examine each aspect of his operation and determine if additional precautions should be taken. All health and safety information contained in this SDS should be provided to the user's employees or customers. It is the user's responsibility to use this information to develop appropriate work practice guidelines and employee training programs for his operation.

**End of Safety Data Sheet**