12075 12075PK

## **SAFETY DATA SHEET**

Issuing Date: 1-Jan-2013 Revision Date: 1-May-2015 Revision No.: 0

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

Product identifier

Product Name Safety Matches

Other means of identification

**UN-No.** UN1944

Synonyms Book Matches, Matchbooks, Safety Matches

Recommended use of the chemical and restrictions on use

Recommended use Matches

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name ......Atlas Match

**Supplier Address** 1801 S. Airport Circle

Euless, TX 76040

**Supplier Phone Number** Phone: 817-354-7474

Supplier Email <u>custserv@atlasma</u>tch.com Emergency telephone number "7\ Ya HYW 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

## Classification

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

Flammable solids Category 2

#### GHS Label elements, including precautionary statements

**Emergency Overview** 

Signal Word Warning

**Hazard Statements** Flammable solids



Appearance: Book match Physical State: Solid Odor: none

## **Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces - No smoking Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response** 

#### **Precautionary Statements - Storage**

Store in a cool, dry location, away from heat, open flames or sparks, or flammable materials.

### **Precautionary Statements - Disposal**

None

### Hazards not otherwise classified (HNOC)

Smoke from fire may be irritating to lungs and eyes.

#### **Unknown Toxicity**

11% of the mixture consists of ingredient(s) of unknown toxicity

#### **Other Information**

None

#### **Interactions with Other Chemicals**

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	
Match:			
Sulfur	7704-34-9	0.4%	
Potassium chlorate	3811-04-9	4%	
Striker Strip:			
Amorphous Red Phosphorous	7723-14-0	<1.0%	

## 4. FIRST AID MEASURES

First aid measures

Burns: Treat all thermal burns with appropriate first aid measures for degree of burn

Respiratory Distress: Remove to fresh air and seek medical attention for smoke inhalation

**Eyes:** Flush with fresh water for 15 minutes and seek medical attention.

**Ingestion:** While potassium chlorate is classified as a harmful substance, the quantity

present in a single match is very low (typically 8 mg in a single match). With an LD50 of 1870 mg/kg of body weight, death may occur after ingestion of around

106 matches/pound of body weight, i.e. over 2,125 matches for a

20 pound child. The quantities of matches are so large that the health risk is

considered negligible.

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

**Most important symptoms and** Coughing and/ or wheezing from smoke inhalation. Difficulty in breathing. **Effects** 

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

Notes to Physician Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Water is the most effective extinguishant, but dry chemical, CO2, sand, earth, or regular foam can be used.

#### Unsuitable Extinguishing Media

Not known

### Specific Hazards Arising from the Chemical

A large quantity of matches may burn rapidly with flare burning effect.

Uniform Fire Code FLAMMABLE SOLID: INORGANIC

## **Hazardous Combustion Products**

Oxides of carbon, oxides of sulfur

#### 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 The likelihood of match head composition being released into the environment

is low. If significant quantities of matches are released by breakage or spillage then remove all potential sources of ignition, salvage any undamaged product

and wet down the remaining product before cleaning up.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Handling** In storage, matches give off no toxic fumes or flammable gases. Matches do

not spontaneously catch fire although fires can occur if the product is mishandled. Handling and storage requirements are such as to minimize

sources of ignition, and other highly flammable materials.

## Conditions for safe storage, including any incompatibilities

**Storage** For safety, store in a cool, dry place, away from heat, open flames or

sparks, or flammable materials.

Incompatible Products None known based on available information

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Control parameters

**Exposure Guidelines** No special measures are required when handling matches.

## PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties**

**Physical State** Solid Odor None

Matches **Appearance Odor Threshold** no information Color Various available

None known

<u>Property</u>	<u>Values</u>	Remarks/ Method
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	None known
Flammability Limit in Air	No data available	None known
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient:		
n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kiinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	None known

## Other information

**Oxidizing Properties** 

**Softening Point** No data available None known **VOC Content (%)** No data available None known **Particle Size** No data available None known **Particle Size Distribution** No data available None known

## 10. STABILITY AND REACTIVITY

No data available

#### Reactivity

Stable under normal ambient conditions. They are liable to spontaneous combustion at temperatures exceeding 350°F

#### **Chemical stability**

Stable under recommended storage conditions

## Possiblity of Hazardous Reactions

If ignited in large quantities matches produce much smoke

#### **Hazardous Polymerization**

Hazardous polymerization does not occur

#### Conditions to avoid

Heat, flames, and sparks

### Incompatible materials

None known based on available information

#### **Hazardous Decomposition Products**

Oxides of carbon, oxides of sulfur

## 11. TOXICOLOGICAL INFORMAMTION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied

information

**Inhalation** Specific test data for the substance or mixture is not available. May cause

irritation of respiratory tract. Harmful by inhalation. (based on components).

**Eye Contact** 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.

**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.

**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 harmful if swallowed. (based

on components).

**Component Information** 

Compension intermation			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfur 7704-34-9	>3000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>9.23 mg/L (Rat) 4h
Potassium chlorate 3811-04-9	=1870 mg/kg (Rat)	<2000 mg/kg (Rabbit)	_

#### Information on toxicological effects

**Symptoms** Coughing and/ or wheezing from smoke inhalation.

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

**Sensitization** No information availble

Mutagenic Effects No information available

Carcinogenicity Contains no ingredient listed as a carcinogen

Reproductive Toxicity No information availble

STOT - single exposure No information availble

STOT - repeated exposure No information available

**Chronic Toxicity** No known effect based on available information

**Target Organ Effects** Respiratory system from smoke inhalation

**Aspiration Hazard** No information available

## Numerical measures of toxicity Product Information

The following value is calculated based on App A (A.1.3.6.2.4) of the HazCom regulation

**ATEmix (oral)** 19,299 mg/kg

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated

### Persistence and Degradability

No information available

## **Bioaccumulation**

No information available

#### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

**Disposal methods** Should not be released into the environment. Dispose of contents/containers in

accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

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

**US EPA Waste Number** D001

California Hazardous Waste Codes 181

# 14. transport information

DOT

UN-No. UN1944

matches, safety **Proper Shipping Name** 

**Hazard Class** 4.1 **Packing Group** Ш

Description UN1944, MATCHES, SAFETY, 4.1, III

**Emergency Response** 

**Guide Number** 

133

<u>TDG</u>

**UN-No.** UN1944

Proper Shipping Name MATCHES, SAFETY

Hazard Class 4.1 Packing Group III

**Description** UN1944, MATCHES, SAFETY, 4.1, III

MEX

**UN-No.** UN1944

Proper Shipping Name Matches, safety

Hazard Class 4.1 Packing Group

**Descriptoin** UN1944 Matches, safety, 4.1, III

**ICAO** 

**UN-No.** UN1944

Proper Shipping Name Matches, safety

Hazard Class 4.1 Packing Group iii

**Description** UN1944, Matches, safety, 4.1, III

<u>IATA</u>

**UN-No.** UN1944

Proper Shipping Name MATCHES, SAFETY

Hazard Class 4.1 Packing Group iii

**Description** UN1944, MATCHES, SAFETY, 4.1, III

IMDG/IMO

**UN-No.** UN1944

Proper Shipping Name MATCHES, SAFETY

Hazard Class 4.1
Packing Group iii
EmS No. F-A, S-1

**Description** UN1944, MATCHES, SAFETY, 4.1, III

<u>RID</u>

**UN-No.** UN1944

Proper Shipping Name Matches, safety

Hazard Class 4.1
Packing Group III
Classification code F1

**Description** UN1944 Matches, safety, 4.1, III

<u>ADR</u>

**UN-No.** UN1944

Proper Shipping Name Matches, safety

Hazard Class 4.1
Packing Group III
Classification code F1

**Description** UN1944 Matches, safety, 4.1, III

#### ADN

**UN-No.** UN1944

Proper Shipping Name Matches, safety

Hazard Class 4.1
Packing Group III
Classification code F1

Special Provisions 293

**Description** UN1944 Matches, safety, 4.1, III

Hazard Labels 4.1 Limited Quantity LQ9

## 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.

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

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

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

## California Proposition 65

This product does not contain any Proposition 65 chemicals

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

Chemical Name	NJ	MA	PA	RI	IL
Potassium chlorate 3811-04-9	Х	Х	Х		
Sulfur 7704-34-9	Х	Х	Х		

## International Regulations

Canada WHIMIS Hazard Class B4 - Flammable solid



# **16. OTHER INFORMATION**

NFPA Health Hazards 1 Flammability 4 Instability 2 Physical & Chemical Hazards

HMIS Health Hazards 1 Flammability 4 Physical Hazard 2 Personal Protection X

Prepared by .....Atlas Match

P.O. Box 1227 Euless, TX 76039

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Revision Note SDS format

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**