

SAFETY MATCHES12075
S41893D

Material Safety Data Sheet

(essentially similar to OSHA form 20)

Manufactured by: Atlas Match, LLC
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Product Information

Generic ID: Matches, Safety, Book or Strike on Box UN 1944
Brand Name: Atlas Book Matches, Advertising Book Matches and, various stock and special design names.
Hazard Class: Flammable Solid
Label Required: None (exception 49CFR 173.186c)

Hazardous Ingredients

<u>Ingredient</u>	<u>Percent</u>	<u>PEL</u>	<u>Hazard</u>
Potassium Chlorate	3.0%	NE	Strong Oxidizer
Red Phosphorous	<1.0%	NE	Flammable Solid

Physical Data

Appearance and Odor: Odorless manufactured article – wood or paper stem with matchhead.
Solubility in Water: Non-paper components are partially soluble
Specific Gravity: < 1.0 (water = 1.0)
Boiling Point: NA
Vapor Pressure and Density: NA
Percent Volatile: 0 to 7% moisture
Evaporation Rate: NA

Fire and Explosion Hazard Data

Flash Point: NA
Flammable Limits: NA
Auto-ignition Point: Approx. 375 degrees F, Stable at 200 degrees F for 8 hours
Extinguishing Media: Water or ABC dry chemical extinguisher

Special Fire Fighting Procedures

1. Do not open sealed packages until fire is controlled, in order to limit oxygen availability.
2. Smoke from significant fire involvement will contain Oxides of Carbon and Sulfur Dioxide which is hazardous (TLV 2ppm), use self contained breathing apparatus.

Unusual Fire/Explosion Hazards

Possibility of ignition if subjected to extreme shock or friction.

Health Hazard Data

Threshold Limit Value:	None known for product
Effects of overexposure:	Contact with product while functioning can result in thermal burn.
First Aid Procedure:	Burns should be immersed in cold water (unless area is extensive and 3 rd degree) to relieve pain. Cover with sterile dressing and seek medical attention if required.

Reactivity Data

Stability:	Stable
Conditions to avoid:	Avoid temperature over 200 degrees F and extreme shock.
Incompatibility:	Exposure to water or extreme dampness may effect performance; strong acids and phosphorus (red or yellow forms) may cause ignition.
Hazardous Polymerization:	Will not occur.

Spill or Leak Procedures

For spills including loose matches or broke cases

Keep unnecessary personnel, open flames (including flares), heat sources and sparks away from area. Wet spilled material thoroughly before attempting clean up. Place in non-flammable container and submerge in water for one hour before disposal.

For unopened cases

Evaluate each case for possible ignition, looking for signs of smoke or warmth. Do not open any case which is warm or smoking, wet it down and dispose of when cool. Full cases not affected can be considered safe to use.

Disposal

Dispose of matches after at least one hour submersion under water by incineration or landfilling in accordance with local, state and federal regulations.

California Users Special Instructions:

The match tips in this product contain perchlorate materials. Special handling may apply in California. See: www.dtsa.ca.gov/hazardouswaste/perchlorate.

Special Precautions

Protective equipment:	None normally required
Ventilation:	Natural is sufficient for normal use
Precautions for handling and storage:	Store in a cool, dry location. Avoid crushing or extreme mechanical shock.
Other precautions:	Close book before striking. Strike away from face and body.

The information accumulated herein is believed to be accurate, but is not warranted to be. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.