



A DIVISION OF JARDEN CORPORATION

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## Material Safety Data Sheet

Prepared by: DW

### Section I Material Identification

**Product Name:** Wooden Stick Strike on Box Matches (SOB) (AKA: Safety Matches)  
**USA - DOT Information:** MATCHES, SAFETY, UN 1944  
**Manufactures Name:** Jarden Home Brands, 1800 Cloquet Ave., Cloquet, MN 55720  
**Telephone Number:** (218) 879-6700  
**Chemtrec Emergency No:** (800) 424-9300

### Section II Hazardous Ingredients

Match:	% By Weight	PEL
Potassium Chlorate	<1.0%	NE
Sulfur	<1.0%	NE
<b>Striker Strip:</b> Amorphous Red Phosphorous	<1.0%	NE

NE = None Established  
TWA = Time Weighted Average  
CEIL = Ceiling Limit  
PEL = Permissible Exposure Limits  
PPM = Parts per Million  
STEL = Short Term Exposure Limit

### Section III Physical Data

<b>Boiling Point:</b> NA	<b>Specific Gravity:</b> 1.3 g/cc (Matches)
<b>Freezing Point:</b> NA	<b>Percent Volatile by Volume:</b> NA
<b>Vapor Pressure (mm Hg):</b> NA	<b>Evaporation Rate:</b> NA
<b>Vapor Density (Air=1):</b> NA	<b>Solubility in Water:</b> 7.1 g/cc (Matches)

### Section IV Fire and Explosion Hazard Data

**Flash Point:** NA      **Auto Ignition Temperature:** > 300°F  
**Extinguishing Media:** Water.  
**Unusual Fire and Explosion:** Combustible, may ignite from excessive heat, crushing, or dropping. Smoke from fire may be irritating to lungs and eyes. Contains oxidizers, which may increase the burning rate of combustible materials with flare-burning effect.  
**Combustion byproducts:** Match: Carbon monoxide, carbon dioxide, oxides of sulfur.  
Striker: Phosphine, oxides of phosphorous, phosphoric acid (in presence of water).

### Section V Health Hazard Data

<b>General:</b> <b>HMIS Rating:</b>	<b>NFPA Rating:</b>
Health = 1	Health = 1
Flammability = 3	Flammability = 3
Reactivity = 2	Reactivity OX (oxidizer) = 2

**NOTE:** Normal use of this product produces fumes (smoke) which may irritate eyes and/or lungs.

#### Signs and Symptoms of Over Exposure:

Eyes - tearing, stinging, redness.  
Inhalation - coughing, soreness in respiratory tract, chest tightness, difficulty breathing.

#### Conditions Generally Recognized as Being Aggravated by Exposure:

Fumes from ignition could aggravate respiratory ailments.

**Synergistic Effects:** None known.

**Usual Method(s) of Contact:** Inhalation of fumes from ignited material, thermal burns from ignited material.

**Primary Route(s) of Entry into the Body:** Inhalation of fumes from ignited material.

Section VI	First Aid
<b>Burns:</b>	Treat all thermal burns with appropriate first aid measures for degree of burn.
<b>Respiratory Distress:</b>	Remove to fresh air and seek medical attention for smoke inhalation.
<b>Eyes:</b>	Flush with fresh water for 15 minutes and seek medical attention.

Section VII	Reactivity Data
<b>Stability:</b> Stable <u>  X  </u>	Unstable _____
<b>Conditions to Avoid:</b>	Do not store with readily oxidizable substances, phosphorous, acids, bases, finely divided metals or organic materials.
<b>Incompatibility:</b>	Avoid mixing with oxidizing agents, phosphorous, acids, bases, finely divided metals or organic materials.
<b>Hazardous Decomposition or Byproducts:</b>	Match: Oxides of carbon, oxides of sulfur. Striker: Oxides of phosphorous.
<b>Hazardous Polymerization:</b>	None known.

Section VIII	Spill or Leak Procedures
<b>Steps to be taken if material is released or spilled:</b>	If packaging is open and contents are spilled, be prepared to wet down with water if crushing or dropping are possible during cleanup. If packaging is intact, packaging is designed to smother unintended ignition.
<b>Waste Disposal Methods:</b>	Incinerate or bury in landfill according to applicable Federal, State and local regulations.

Section IX	Special Protection Information
<b>Precautions to be Taken in Handling and Storing:</b>	Store in a cool, dry location, away from heat, open flames or sparks, or flammable materials.
<b>Other Precautions:</b>	Do not crush or drop. KEEP AWAY FROM CHILDREN.
<b>Other Safety Information:</b>	<u>This packaging is designed to be self-extinguishing, and should smother any unintended ignition, provided the packaging is intact and closed.</u>

Section X	Shipping Information
<b>Shipping Description:</b>	(as per United States DOT Regulations 49 CFR and subparts 173.186.) MATCHES, SAFETY, 4.1, UN 1944, PGIII
<b>Hazardous Material Class:</b>	4.1 Flammable Solid
<b>Northern American Emergency Response Guidebook 2000:</b>	Guide 133 for First Responders During the Initial Phase of a Dangerous Goods/Hazardous Materials Incident.

**NOTE:** According to 49 CFR 173.186 (c) Safety matches and wax "Vesta" matches must be tightly packed in securely closed inner packagings to prevent accidental ignition under conditions normally incident to transportation, and further packed in outer fiberboard, wooden, or other equivalent outer packagings. These matches in outer packagings not exceeding 23 kg (50 pounds) gross weight are not subject to any other requirement (except marking) of this subchapter. These matches may be packed in the same outer packagings with materials not subject to this subchapter.

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