

Jarden Home Brands [JHB] Material Safety Data Sheet

Preparation Date: 2/11/2013

Revised by: TEB

Section I

Material Identification

Product Name: Wooden Stick, Strike On Box Matches (SOB) [AKA: Safety Matches] includes Multimatch, Long Reach Match, Greenlights and Diamond SOB Match. Part numbers: 48789-11170, -11172, -04546, -02225, -02233, -02234, display -02226 & Ohio Blue Tip -05305. [Note: This is not an exhaustive list of JHB SOB part numbers this MSDS communication applies to]

USA - DOT Information: UN 1944 - MATCHES, SAFETY, 4.1, PG III [Safety Matches HM exemption per 49 CFR173.186 (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-type 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 packaging with materials not subject to this subchapter.]"

Manufacture Name: Jarden Home Brands, Inc., 1800 Cloquet Ave., Cloquet, MN 55720
Telephone Number: (218) 879-6700 Ext 2747 Business Hours: 9 AM - 4 PM, CST, M-F
Chemtrec Emergency No: (800) 424-9300 24 Hour Service provided by Chem Trec per CCN 994

Section II

Hazardous Ingredients

| Match | % By Weight | CAS Number | PEL |
|--|---------------------------------------|----------------|---|
| Potassium Chlorate | <1.0% | 3811 - 04 - 9 | NE |
| Sulfur | <1.0% | 7704 - 34 - 9 | NE |
| Proprietary mixture: binders adhesives and additives | 1 - 3% | Not Determined | NE |
| Striker Strip | | | |
| Amorphous Red Phosphorous | <1.0% | 7723 - 14 - 0 | NE |
| Wooden Match Splint | | | |
| Aspen Wood | balance of match product weight ~ 97% | 67 - 65 - 1 | NE |
| | | | Note: Exposure to wood dust is not expected during use and handling of this product |
| Monoammonium Phosphate treatment added to splint | trace | 7722 - 76 - 1 | 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

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

Section IV

Fire and Explosion Hazard Data

Flash Point: NA
Flammable Limits (LEL): NA
Extinguishing Media: Water
Auto Ignition Temperature: ~340°F
UEL: NA
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****General:****HMIS Rating:**

Health = 1
Flammability = 3
Reactivity = 2
PPE Code = A

NFPA Rating:

Health = 1
Flammability = 3
Reactivity = 2
OX (oxidizer)

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**Reactivity Data**

Stability: Stable X

Unstable _____

Conditions to Avoid:

Do not store with readily oxidizable substances, phosphorous, acids, bases, finely divided metals and organic materials.

Incompatibility:

Avoid mixing with oxidizing agents, phosphorous, acids, bases, finely divided metals and organic materials.

Hazardous Decomposition or Byproducts:

Match: Oxides of carbon, oxides of sulfur

Striker: Oxides of phosphorous

Hazardous Polymerization:

None known

Section VII**Spill or Leak Procedures****Steps to be taken if material is released or spilled:**

If packaging is broken open and contents are spilled, wet down product thoroughly with water if crushing or dropping are possible during cleanup and disposal. Package loose, wet matches into 5-gallon plastic or metal pails and close securely.

If original packaging is intact, packaging is designed to smother any unintended ignition. Normal garbage handling procedures for intact packaging does not pose any extra risk for fire with this product.

Waste Disposal Methods:

Incinerate or bury intact boxes or cases of SOB in municipal landfill or at an authorized facility. Manage any pails of wet loose SOB matches created during cleanup of a release or spill of this match product in a similar manner.

Dispose of waste product according to all applicable Federal, State, and Local regulations. Due to the possibility of legal issues, Jarden Home Brands – Cloquet will not accept return of any partial or damaged match cases. Return of full, intact original cases of match product in good condition must be approved by the plant manager at Jarden Home Brands – Cloquet plant prior to shipment. Should partial or damaged cases of product be returned from a location improperly, the shipper may be subject to severe penalties from the Department of Transportation (DOT) as these partial or damaged cases will not meet DOT packaging specifications for these exempted hazardous materials during transportation.

Section VIII**Special Protection Information****Precautions to be Taken in Handling and Storing:**

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

Other Precautions:

This packaging is specially designed to be self-extinguishing, and should smother any unintended ignition, provided the packaging is intact, closed and good condition.

Do not crush or drop. KEEP AWAY FROM CHILDREN.

Section IX US DOT Haz Mat Shipping Information

Shipping Description (as per the United States DOT Regulations 49 CFR and subparts 173.186.)

UN1944, MATCHES, SAFETY, 4.1, PGIII

Hazardous Material Class

4.1 Flammable Solid (transportation by Air is allowed - see A.I.R. Manual for details)

Northern American Emergency Response Guidebook 2012: Guide 133 for First Responders During the

Initial Phase of a Dangerous Goods/Hazardous Materials Incident. [JHB provides this guide # as general information only]

DISCLAIMER:

While the information and recommendations contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Jarden Home Brands makes no warranty, express or implied regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and Jarden Home Brands assumes no responsibility from the use or reliance thereon. It is the responsibility of the user of Jarden Home Brands products to comply with all applicable Federal, State, and Local laws and regulations.