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

> "Safety matches and wax ``Vesta'' matches must be tightly packed CFR173.186 (c) in securely closed inner packagings to prevent accidental ignition under conditions normally incident to transportation, and further packed in outer fiberboard, wooden, or other equivalenttype 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

Business Hours: 9 AM - 4 PM, CST, M-F Telephone Number: (218) 879-6700 Ext 2747 Chemtrec Emergency No: (800) 424-9300 24 Hour Service provided by Chem Trec per CCN 994

Section II **Hazardous Ingredients** Match % By Weight Potassium Chlorate

CAS Number PEL <1.0% 3811 - 04 - 9 NE <1.0% 7704 - 34 - 9 ΝE 1 - 3% Not Determined NE

Amorphous Red Phosphorous **Wooden Match Splint**

Proprietary mixture: binders adhesives and additives

Sulfur

Striker Strip

ΝE Aspen Wood balance of match 67 - 65 - 1 Note: Exposure to wood dust is not

7723 - 14 - 0

7722 - 76 - 1

product weight ~ 97% expected during use and handling of

NE

NE

this product

Monoammonium Phosphate treatment added to splint

> NF = None Established TWA = Time Weighted Average Ceiling Limit

trace

<1.0%

PEL = Permissible Exposure Limits

PPM = Parts per Million STEL = Short Term Exposure Limit

Section III **Physical Data**

> **Boiling Point: NA** Specific Gravity: 1.3 g/cc (Matches)

Freezing Point: NA Percent Volatile by Volume: NA Vapor Pressure (mm Hg): NA **Evaporation Rate: NA**

Vapor Density (Air=1): NA Solubility in Water: 7.1 g/cc (Matches)

Section IV Fire and Explosion Hazard Data

CEIL =

Flash Point: NA Auto Ignition Temperature: ~340°F Flammable Limits (LEL): NA UEL: NA

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

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 Rea	activity	Data
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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]

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