Material Safety Data Sheet

Product: Heinrich
MSDS Date: 5/23/05
Product Name: Heinrich Alternatives
Manufacturer: Missouri Cooperage Company

I. Product and Company Description

Products: chips, tank staves, and powders (including VTAN) packaged in any way.
Company: Heinrich Alternatives
2557 Napa Valley Corp. Drive
Suite D
Napa, CA 94558
For Product Information/Emergency Phone Number:
707-259-4988
Chemical Synonym/Formula:
N/A

II. Chemical Composition

Products are composed of non-hazardous components as defined by OSHA 1910.1200. However, wood dusts which may be formed from handling and using product may be regulated.

Component	CAS#	Composition
Wood Dust	N/A	0-100

III. Hazards Identification

Potential Health Effects:

Acute Eye:

Contact may cause mild eye irritation with redness, tearing, and other vision effects. Sensitive individuals may develop contact dermatitis.

Acute Skin:

In sensitive individuals, may cause skin irritation. Symptoms may include itching.

Acute Inhalation:

Inhalation of high concentration of dusts may produce nasal dryness, irritation and obstruction. Coughing, wheezing, sneezing, sinusitis and prolonged colds may also develop. Excess inhalation of dust may cause asphyxiation.

Acute ingestion:

Not a likely route of exposure under anticipated use conditions. If swallowed, may cause irritation of the gastrointestinal tract and discomfort with symptoms of nausea.

Chronic Exposure:

Wood dust, depending on species, may cause dermatitis on prolonged, repetitive contact; may cause respiratory sensitization and/or irritation. The International

Agency for Research on Cancer (IARC) classifies wood dust as a carcinogen to humans (Group 1, as of April 1995). This classification is based primarily on IARC's evaluation of the nasal cavities and paranasal sinuses

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Associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hemapoietic systems, stomach, colon or rectum with exposure to wood dust. The American Conference of Governmental Industrial Hygienists (ACGIH) classifies hardwood dust as a confirmed human carcinogen (Class A1, as of May 1996).

Aggravation of Pre-existing Conditions:

Not determined.

IV. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure:

Immediately flush eyes with copious amounts of water. If irritation develops, SEEK MEDICAL ATTENTION.

Skin Exposure:

Wash skin with plenty of soap and water. Get medical attention if irritation develops.

Inhalation:

Move to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. SEEK MEDICAL ATTENTION.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. SEEK MEDICAL ATTENTION.

V. Fire Fighting Measures

Fire Hazard Data:

Autoignition: Greater Than 400 Deg F (200 Deg C)

Flash Point: Greater Than 450 Deg F (232 Deg C)

Flammability Limits (vol/vol%):

Lower: ND

Upper: ND

Extinguishing Media:

Water, Water fog, Carbon Dioxide, or Dry Chemical.

Special Fire Fighting Procedures:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards:

Once ignited, product may punk until doused with water. Wood dust is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source. The explosive LEL for this material is 40 grams/m^3

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VI. Accidental Release Measures

Cleanup and Disposal of Spill:
Pick up using broom or vacuum and place in a suitable container for reclamation or disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

VII. Handling and Storage

Handling/Storage:
Do not take internally. Do not eat or drink while handling. Avoid contact with eyes and skin and avoid prolonged breathing of dusts.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	ACGIH	NIOSH	OSHA-PELs
Wood Dust	1 mg/m3	ND	15 mg/m3, total dust 5 mg/m3, respirable fraction

Engineering Controls:
Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.
Respiratory Protection:
If the exposure limit is exceeded and engineering controls are not feasible follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or EN approved respirator when necessary.
Eye / Face Protection:
Goggles are recommended during fabrication or in those cases where use results in dust generation.
Skin Protection:
Not required under anticipated use conditions. Sensitive individuals may require suitable glove material.

IX. Physical and Chemical Properties

Physical Appearance: Solid
Odor: None
pH: ND
Specific Gravity: 0.100 - 0.250 @ 77 Deg F (25 Deg C)
Water Solubility: <1% by weight
Melting Point: N/A
Freezing Point ND

Boiling Point: N/A
Vapor Pressure: <1mm HG @ 68 Deg F (20 Deg C)
Vapor Density: N/A
Percent Volatiles by Volume: <1%
Evaporation Rate: ND
Viscosity: ND
Density: ND

X. Stability and Reactivity

Chemical Stability:
Stable
Conditions to Avoid:
Exposure to open flame or excessive heat. Sustained burning may produce low levels of carbon monoxide, carbon dioxide, and other toxic materials.
Materials / Chemicals to Be Avoided:
Strong oxidizing agents.
Hazardous Decomposition Products:
Oxides of carbon, low molecular weight hydrocarbons and organic acids.
Hazardous Polymerization:
Will not occur.

XI. Toxicological Information

No Information found.

XII. Ecological Information

Environmental Fate:
No information found.
Environmental Toxicity:
No information found.

XIII. Disposal Considerations

Waste Disposal Method:
Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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XIV. Transportation Information

US Department of Transportation Shipping Name:

US Department of Transportation	**Proper Shipping Name**
	Not Regulated
Hazard Class	Not Regulated
ID Number	Not Regulated
Packaging Group	Not Regulated

XV. Regulatory Information

Federal Regulations:

SARA Title III Hazard Classes:

Fire Hazard: No
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: No
Chronic Health Hazard: No

TSCA

All components of this product are on the TSCA inventory or are exempt from TSCA Inventory requirements

Other Regulations:

None

XVI. Other Information

National Paint & Coating Hazardous Materials Identification System – HMIS(R):

Health Hazard: 1
Flammability: 1
Reactivity: 0

Key Legend Information:

N/A – Not Applicable
ND – Not Determined
ACGIH – American Conference of Governmental Industrial Hygienists
OSHA – Occupational Safety and Health Administration
TLV – Threshold Limit Value
PEL – Permissible Exposure Limit
TWA – Time Weighted Average
STEL – Short Term Exposure Limit
NTP – National Toxicology Program
IARC – International Agency for Research on Cancer

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The information contained herein is based on the data available to us and is believed to be correct. However Heinrich Alternatives makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

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