SAFETY DATA SHEET: BENZOIN TINCTURE

1. IDENTIFICATION
Product Name: BENZOIN TINCTURE
Synonyms:
Formula and Formula Weight: Mixture NA
Integra numbers beginning with: B407.30
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company 24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>OSHA Classification</th>
<th>Hazard Category</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>2B</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (single exposure)</td>
<td>3</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>2</td>
<td>Highly flammable liquid and vapor.</td>
</tr>
</tbody>
</table>

Signal Word: Danger

Precautionary Statements

Prevention:
Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
Keep container tightly closed.
Ground, bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection, face protection.

Response
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center, doctor if you feel unwell.
Specific treatment (see first aid section on this label)
If skin irritation occurs: Get medical advice, attention.
If eye irritation persists: Get medical advice, attention.
Take off contaminated clothing and wash it before reuse.

Storage
Store locked up in a well ventilated place. Keep cool. Keep container tightly closed.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>Ethanol</td>
<td>00064-17-5</td>
<td>75 - 83</td>
</tr>
<tr>
<td>Benzoin resin</td>
<td></td>
<td>09000-05-9</td>
<td>17 - 25</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing.
Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. If irritation persists, seek medical attention.
9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: Not available
Odor: Vanilla-like odor
Odor Threshold: Not available
pH: Not available
Partition Coefficient: n-octanol/water
Appearance: Clear, red-brown liquid
Melting/Freezing Point: Not available
Flash Point: Not available
Initial Boiling Point and Boiling Range: 173 °F
Evaporation Rate: Not available
Flammability: Flammable
Flash Point: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Relative Density: 0.85 g/cc
Solubility: Moderately soluble in water
Partition Coefficient: Not available
Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, dry chemical or alcohol foam. Water may be ineffective.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: Vapors may flow along surfaces to distant ignition sources and flash back. Vapors are heavier than air and will settle in low areas. Material may float on water and re-ignite. Burns with a pale blue flame which may be difficult to see under normal lighting conditions. Static ignition hazard.
Hazardous combustion products: Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear full protective equipment including suitable respiratory protection. Absorb with sand or inert material. Place into suitable container for disposal.
Ingestion: Do not induce vomiting. If victim is conscious, rinse mouth, give water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin Contact: Remove contaminated clothing. Flush skin with plenty of water. Seek medical attention if irritation develops.
Inhalation: Do not induce vomiting. If victim is conscious, rinse mouth, give water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Additional notes: Symptoms and effects include irritation of skin, eyes, gastrointestinal tract, respiratory tract; headache, dizziness, nausea, vomiting; coughing, dizziness; drunkeness; severe systemic illness; coma; organ damage; death.

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong oxidizers. Strong inorganic acids, alkali metals, ammonia, peroxides.
Storage and Handling: Store locked up in a cool, dry, well-ventilated flammable liquids storage area or cabinet away from incompatible materials. Keep away from heat and ignition sources. Keep containers tightly closed and protect them from physical damage. Bond and ground containers when transferring liquid. Use only non-sparking tools and take precautionary measures against static discharge. No smoking. Keep material cool.
Ground, bond container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, equipment.
Use only non-sparking tools.
Avoid breathing fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection, face protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:

<table>
<thead>
<tr>
<th>Substance</th>
<th>OSHA TWA</th>
<th>ACGIH STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>1000 ppm</td>
<td>1900 mg/m³</td>
</tr>
<tr>
<td>Benzoin resin</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Engineering Controls: Use general or local exhaust ventilation to meet TLV and PEL requirements.
Respiratory Protection: Respiratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved chemical cartridge respirator with an organic vapor cartridge.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers.
Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Apearance: Clear, red-brown liquid
Odor: Vanilla-like odor
Odor Threshold: Not available
pH: Not available
Melting/Freezing Point: Not available
Initial Boiling Point and Boiling Range: 173 °F
Flash Point: Not available
Evaporation Rate: Not available
Flammability: Flammable
Flammable or Explosive Limits (% by volume in air):
Upper: Not available
Lower: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Relative Density: 0.85 g/cc
Solubility: Moderately soluble in water
Partition Coefficient: n-octanol/water
Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available
10. STABILITY AND REACTIVITY
Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur. Vapors may form explosive mixture with air.
Conditions to Avoid: Heat, sparks and open flame.
Incompatibles: Incompatible with strong oxidizers. Strong inorganic acids, alkali metals, ammonia, peroxides.
Decomposition Products: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION
Effects of Over Exposure:
Inhalation: Harmful if inhaled. Symptoms include respiratory tract irritation, coughing, dizziness, dullness and headache. High concentrations can produce central nervous system depression, narcosis and unconsciousness.
Skin Contact: May cause skin irritation. Prolonged contact may cause dermatitis.
Eye Contact: Contact may be irritating to the eyes. May cause painful sensitization to light.
Ingestion: Harmful if swallowed. Ingestion may cause headache, dizziness, nausea, vomiting, gastrointestinal irritation. Produces drunkenness followed by severe systemic illness and perhaps coma and death.
Chronic Effects: Chronic exposure may damage the liver, kidneys, eyes, lungs, heart, central nervous system, brain and spleen. May cause loss of appetite, weight loss, nervousness, memory loss, mental retardation.
Target Organs: Liver, kidneys, eyes, lungs, central nervous system, brain, respiratory system, heart, stomach and spleen.
Additional Effects: May aggravate pre-existing skin disorders, liver disorders
Reproductive Effects: Ethyl alcohol has been linked to birth defects in humans.
Carcinogenicity: None identified
Toxicity Data:
Ethyl Alcohol
LC50 (inhalation, rat) 20000 ppm/10hr
LD50 (oral, rat) 7060 mg/kg
LDlo (skin, rabbit) 20000 mg/kg

Benzoin resin
No information available.

12. ECOLOGICAL INFORMATION
Aquatic Toxicity Data:
Ethyl Alcohol LC50 Oncorhynchus mykiss: >10,000 mg/l
Benzoin resin No information available
Terrestrial Toxicity Data:
Ethyl Alcohol LC50 Oncorhynchus mykiss: >10,000 mg/l
Benzoin resin No information available

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS
Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION
This product is a regulated material for domestic ground transporation, per CFR Title 49.
UN Number: UN1293
Proper Shipping Name: Tinctures, medicinal
Packing Group: II
Hazard Class: 3
Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION
Ethyl Alcohol is listed in the TSCA inventory.
Benzoin resin is listed in the TSCA inventory.

16. OTHER INFORMATION
OSHA SDS #: 25218 rev 101 4/28/2015

NI = Not established, NA = Not applicable or Not available

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**** END OF SDS ****