SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME
BELLADONNA TINCTURE, USP

PRODUCT CODE
1022

SUPPLIER
MEDISCA Inc.
Tel.: 1.800.932.1039 | Fax.: 1.855.850.5855
661 Route 3, Unit C, Plattsburgh, NY, 12901
3955 W. Mesa Vista Ave., Unit A-10, Las Vegas, NV, 89118
6641 N. Belt Line Road, Suite 130, Irving, TX, 75063

MEDISCA Pharmaceutique Inc.
Tel.: 1.800.665.6334 | Fax.: 514.338.1693
4509 Rue Dobrin, St. Laurent, QC, H4R 2L8
21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2

MEDISCA Australia PTY LTD
Tel.: 1.300.786.392 | Fax.: 61.2.9700.9047
Unit 7, Heritage Business Park
5-9 Ricketty Street, Mascot, NSW 2020

EMERGENCY PHONE
CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300
NSW Poisons Information Centre: 131 126

USES
Antimuscarinic agent; Anticholinergic, herbal therapy

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION
Acute Toxicity - Oral (Category 5); Flammable Liquid (Category 2); Eye Irritation (Category 2B); Skin Irritation (Category 2); Sensitization - Skin (Category 1B)

PICTOGRAM
Danger

HAZARD STATEMENT(S)
May be harmful if swallowed. Highly flammable liquid and vapor. Causes eye irritation. Causes skin irritation. May cause an allergic skin reaction.

AUSTRALIA-ONLY HAZARDS
In use, may form flammable/explosive vapour-air mixture.

PRECAUTIONARY STATEMENT(S)
Prevention
Keep away from heat, sparks, open flames and/or hot surfaces. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection and face protection.
Wash thoroughly after handling.
Avoid breathing dust, fume, gas, mist, vapors, spray. Contaminated work clothing must not be allowed out of the workplace.

Response
If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
In case of fire: Use water spray, alcohol foam, fog to extinguish.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage
Store in a well-ventilated place. Keep cool.

Disposal
Dispose of contents and/or container in accordance with local regulations.

HMIS CLASSIFICATION
Health Hazard 2
Flammability 3
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
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<tbody>
<tr>
<td>BOTANICAL NAME</td>
<td>Atropa belladonna, atropa acuminata</td>
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<tr>
<td>SYNONYM</td>
<td>Not applicable</td>
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<tr>
<td>CHEMICAL FORMULA</td>
<td>Not applicable</td>
</tr>
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<td>CAS NUMBER</td>
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<td>ALTERNATE CAS NUMBER</td>
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<td>MOLECULAR WEIGHT</td>
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COMPOSITION

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<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>% BY WEIGHT</th>
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<tbody>
<tr>
<td>BELLADONNA</td>
<td>8007-93-0</td>
<td>30-35</td>
</tr>
<tr>
<td>ETHYL ALCOHOL</td>
<td>64-17-5</td>
<td>65-70</td>
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</table>

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT
Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

IN CASE OF SKIN CONTACT
Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED
Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED
Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL
Not applicable

FLAMMABLE PROPERTIES
Flammable

HAZARDOUS COMBUSTION PRODUCTS
Under fire conditions, hazardous fumes will be present.

EXTINGUISHING MEDIA
Small fire: dry chemical, CO₂ or water spray. Large fire: dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
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METHODS & MATERIAL FOR CONTAINMENT

On land, sweep or shovel into suitable containers. Minimize generation of dust.

CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

STORAGE CONDITIONS

Preserve in tight, light-resistant containers, and avoid exposure to direct sunlight and to excessive heat.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

<table>
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<tr>
<th>Chemical Name</th>
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<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>Safe Work Australia HSIS</th>
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<td>Ceiling</td>
<td>Skin Designation</td>
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<tr>
<td>ETHYL ALCOHOL</td>
<td>64-17-5</td>
<td>1000ppm; 1900 mg/m³</td>
<td>N/L</td>
<td>N/L</td>
<td>1000ppm; 1880 mg/m³</td>
</tr>
</tbody>
</table>

N/L = Not Listed; X = Listed

EXPOSURE GUIDELINES

Consult local authorities for provincial or state exposure limits

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

DESCRIPTION: Greenish brown colored liquid, having a slight alcohol like characteristic odor

SOLUBILITY: Soluble in cold water, hot water, methanol, diethyl ether, acetone

ODOR: Slight alcohol like characteristic odor

FLAMMABILITY: Flammable

ODOR THRESHOLD: Not available

PH: Not available

MELTING POINT: -114.1 °C, -173.38 °F

BOILING POINT: 78.5 °C, 173.3 °F

FREEZING POINT: Not available

FLASH POINT: 25.556 °C, 78.0008 °F (Closed Cup)
## SECTION 10: STABILITY AND REACTIVITY

### Reactivity
- Not established

### Stability
- Stable under recommended storage conditions

### Materials to Avoid
- Strong oxidants, acids, alkalis

### Hazardous Decomposition Products
- Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

### Hazardous Polymerization
- Will not occur

### Possibility of Hazardous Reaction
- Not established

### Conditions to Avoid
- Moisture, sunlight and extreme temperatures

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity
- Oral: Rat: LD50: 7060 mg/kg (Ethyl Alcohol)

### Skin Corrosion/Irritation
- Not available

### Serious Eye Damage/Eye Irritation
- Not available

### Respiratory or Skin Sensitization
- Not available

### Germ Cell Mutagenicity
- Not available

### Carcinogenicity
- OSHA: BELLADONNA is not listed.
  - ETHYL ALCOHOL is not listed.
- NTP: BELLADONNA is not listed.
  - ETHYL ALCOHOL is not listed.
- IARC: BELLADONNA is not evaluated.
  - ETHYL ALCOHOL is not evaluated.
- California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

### Reproductive Toxicity
- Not available

### Specific Target Organ Toxicity - Single Exposure
- Not available
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

- Not available

ASPIRATION HAZARDS

- Not available

SIGNS AND SYMPTOMS OF EXPOSURE

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation. Prolonged or repeated exposure may cause dermatitis, an allergic skin reaction.

Eyes: Causes eye irritation.

NOTES

- At therapeutic doses: dryness of mouth, with difficulty of swallowing and talking, reduced bronchial secretions, dilatation of pupils, flushing and dryness of the skin, transient bradycardia followed by tachycardia with palpitations and arrhythmias and difficulty in micurition, constipation. Overdosage: hyperthermia, hypertension, increased respiration rate, nausea, vomiting. CNS stimulation marked by restlessness, confusion, ataxia, incoordination, paranoid and psychotic reactions, hallucinations and delirium. Severe intoxication may give way to CNS depression, coma, circulatory and respiratory failure and death. There is considerable variation in susceptibility. Hypersensitivity is not uncommon and may occur as conjunctivitis or a skin rash.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY

- Not available

PERSISTENCE AND DEGRADABILITY

- Not available

BIOACCUMULATIVE POTENTIAL

- Not available

MOBILITY IN SOIL

- Not available

OTHER ADVERSE EFFECTS

- Not available

This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UNITED STATES & CANADA

UN PROPER SHIPPING NAME

TINCTURES, MEDICINAL

UN NUMBER

1293

CLASS

3

PACKING GROUP

III

AUSTRALIA

UN PROPER SHIPPING NAME

TINCTURES, MEDICINAL

UN NUMBER

1293

CLASS

3

PACKING GROUP

III
SAFETY DATA SHEET

HAZCHEM

2Y, 2YE

ENVIRONMENTAL HAZARDS

Not available

SPECIAL SHIPPING INFORMATION

Not applicable

SECTION 15: REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name &amp; CAS</th>
<th>CERCLA 40 CFR Part 302.4</th>
<th>SARA (Title III) 40 CFR Part 372.65</th>
<th>EPA 40 CFR Part 355 Appendix A</th>
<th>Appendix B</th>
<th>Pennsylvania</th>
<th>Right-to-know New Jersey</th>
<th>Massachusetts</th>
<th>California Prop 85</th>
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<tbody>
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<td>BELLADONNA 8007-93-0</td>
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<td>N/L</td>
<td>N/L</td>
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<td>ETHYL ALCOHOL 64-17-5</td>
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N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

<table>
<thead>
<tr>
<th>Chemical Name &amp; CAS</th>
<th>Poisons and Therapeutic Goods Regulation</th>
<th>Therapeutic Goods Act</th>
<th>Code of Practices - Illicit Drug Precursors</th>
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SECTION 16: OTHER INFORMATION

REFERENCES

Available upon request

ABBREVIATIONS AND ACRONYMS


LAST REVISION

9/2014

SUPERSEDES

1/2014

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.