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
Herbal therapy

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION
Flammable Liquid (Category 3)
Eye Irritation (Category 2B)
Skin Irritation (Category 2)
Specific Target Organ Toxicity - Single Exposure (Category 3) - (narcotic effects)
PICTOGRAM

SIGNAL WORD
Warning
HAZARD STATEMENT(S)
Flammable liquid and vapor.
Causes eye irritation.
Causes skin irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.

AUSTRALIA-ONLY HAZARDS
Not applicable
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.
Use only outdoors or in a well-ventilated area.
Response
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
IF ON SKIN (HAIR): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
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.
IN CASE OF FIRE: Use powder, alcohol-resistant foam, water in large amounts, carbon dioxide. In case of fire: keep drums, etc., cool by spraying with water.

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

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

HMIS CLASSIFICATION
<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>0</td>
<td>E</td>
</tr>
</tbody>
</table>

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME
Not applicable

BOTANICAL NAME
Atropa belladonna; atropa acuminata tincture

SYNONYM
Not applicable

CHEMICAL FORMULA
Not applicable

CAS NUMBER
Not applicable

ALTERNATE CAS NUMBER
Not applicable

MOLECULAR WEIGHT
Not applicable

COMPOSITION

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<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>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

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
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SYMPTOMS AND EFFECTS
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
SAFETY DATA SHEET

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 breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

METHODS & MATERIAL FOR CONTAINMENT
On land, sweep or shovel into suitable containers.

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
Store in original container, tightly sealed container, protected from direct sunlight, in a dry, well-ventilated area, away from incompatible materials. Store in accordance with local regulations. Eliminate all ignition sources. Separate from oxidizing materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Preserve in tight, light-resistant containers, and avoid exposure to direct sunlight and to excessive heat.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: BELLADONNA   CAS #: 8007-93-0

<table>
<thead>
<tr>
<th></th>
<th>TWA</th>
<th>Ceiling</th>
<th>STEL</th>
<th>REL</th>
<th>IDLH</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>ACGIH TLV</td>
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<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>NIOSH</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
</tr>
<tr>
<td>AIHA WEEL</td>
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<td>-</td>
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<td>Safe Work Australia HSIS</td>
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<tr>
<td>HSE</td>
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</table>
SAFETY DATA SHEET

Chemical Name: ETHYL ALCOHOL    CAS #: 64-17-5

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<th>STEL</th>
<th>REL</th>
<th>IDLH</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 ppm</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>(1900 mg/m3)</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>1000 ppm</td>
<td>3300 ppm</td>
<td>(See:64175)</td>
</tr>
<tr>
<td>(1900 mg/m3)</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>N/L</td>
<td>N/L</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

N/L = Not Listed

EXPOSURE GUIDELINES
Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m³

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, dietyl ether, acetone

**ODOR**
Slight alcohol like characteristic odor

**FLAMMABILITY**
Flammable

**ODOR THRESHOLD**
Not available

**pH**
Not available

**MELTING POINT**
Not available

**BOILING POINT**
Not available

**FREEZING POINT**
Not available

**FLASH POINT**
25.556 °C, 78.0008 °F (CC)

**SPECIFIC GRAVITY**
0.865

**EVAPORATION RATE**
Not available

**EXPLOSIVE LIMIT**
Not available

**UPPER FLAMMABLE/EXPLOSIVE LIMIT(S)**
Not available

**LOWER FLAMMABLE/EXPLOSIVE LIMIT(S)**
Not available

**VAPOR PRESSURE**
Not available

**VAPOR DENSITY (AIR = 1)**
Not available

**RELATIVE DENSITY (WATER = 1)**
Not available

**log P (OCTANOL-WATER)**
Not available

**AUTO-IGNITION TEMPERATURE**
Not available

**DECOMPOSITION TEMPERATURE**
Not available

**VISCOSITY**
Not available
### SECTION 10: STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>Not established</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable under recommended storage conditions</td>
</tr>
<tr>
<td>Materials to Avoid</td>
<td>Strong oxidants, acids, alkalis</td>
</tr>
<tr>
<td>HAZARDOUS DECOMPOSITION PRODUCTS</td>
<td>Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur</td>
</tr>
<tr>
<td>HAZARDOUS POLYMERIZATION</td>
<td>Will not occur</td>
</tr>
<tr>
<td>POSSIBILITY OF HAZARDOUS REACTION</td>
<td>Not established</td>
</tr>
<tr>
<td>CONDITIONS TO AVOID</td>
<td>Moisture, sunlight and extreme temperatures</td>
</tr>
</tbody>
</table>

### SECTION 11: TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

**ETHANOL (pure):**
- Oral: Rat: LD50: (mg/kg): 7060
- Dermal: Rabbit LD50: (mg/kg): 20 000
- Inhalation: Rat: LD50: (mg/L/4hr): 31 623

**BELLADONA:**
- Oral: Rat: LD50: (mg/kg): Not available
- Dermal: Rabbit LD50: (mg/kg): Not available
- Inhalation: Rat: LD50: (mg/L/4hr): Not available

#### SKIN CORROSION/IRRITATION
- Causes skin irritation.

#### SERIOUS EYE DAMAGE/EYE IRRITATION
- Causes eye irritation.

#### RESPIRATORY OR SKIN SENSITIZATION
- Respiratory sensitization: Due to lack of data the classification is not possible.
- Skin sensitization: Due to lack of data the classification is not possible.

#### GERM CELL MUTAGENICITY
- Due to lack of data the classification is not possible.

#### CARCINOGENICITY

<table>
<thead>
<tr>
<th>Source</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td>BELLADONNA is not listed. ETHYL ALCOHOL is listed.</td>
</tr>
<tr>
<td>NTP</td>
<td>BELLADONNA is not listed. ETHYL ALCOHOL is listed.</td>
</tr>
<tr>
<td>IARC</td>
<td>BELLADONNA is not evaluated. ETHYL ALCOHOL is listed in group 1 (carcinogenic to humans).</td>
</tr>
<tr>
<td>California</td>
<td>This product contains the following chemical known to the State of California to cause cancer and birth defects or other reproductive harm: ETHYL ALCOHOL.</td>
</tr>
</tbody>
</table>

#### ADDITIONAL CARCINOGENICITY INFORMATION
- Based on available data, the classification criteria are not met.

#### REPRODUCTIVE TOXICITY
- Based on available data, the classification criteria are not met.

#### SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
- Due to ethanol content the substance may affect the central nervous system.

#### SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE
- Based on available data, the classification criteria are not met.

#### ASPIRATION HAZARDS
- Based on available data, the classification criteria are not met.

#### SIGNS AND SYMPTOMS OF EXPOSURE
- Not expected to present a significant hazard under anticipated conditions of normal use.
**SAFETY DATA SHEET**

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY**
- EC50: 48 Hr: Crustacea: (mg/L): Not available
- LC50: 96 Hr: Fish: (mg/L): Not available
- IC50: 72 Hr: Algae: (mg/L): Not available

**PERSISTENCE AND DEGRADABILITY**
Not available

**BIOACCUMULATIVE POTENTIAL**
Not available

**MOBILITY IN SOIL**
Soluble in cold and hot water.

**OTHER ADVERSE EFFECTS**
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
- **HAZCHEM**: 2Y, 2YE
- **ENVIRONMENTAL HAZARDS**: Not available

**SPECIAL SHIPPING INFORMATION**: Not applicable

**SECTION 15: REGULATORY INFORMATION**
### SAFETY DATA SHEET

#### CHEMICAL NAME & CAS

<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>California Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>BELLADONNA 8007-93-0</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
<td>N/L</td>
</tr>
<tr>
<td>ETHYL ALCOHOL 64-17-5</td>
<td>N/L</td>
<td>N/L</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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>
</tr>
</thead>
<tbody>
<tr>
<td>BELLADONNA 8007-93-0</td>
<td>Not Listed</td>
<td>Listed as Schedule 4</td>
<td>Not Listed</td>
</tr>
<tr>
<td>ETHYL ALCOHOL 64-17-5</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Listed as Category III</td>
</tr>
</tbody>
</table>

#### SECTION 16: OTHER INFORMATION

**REFERENCES**

Available upon request

**ABBREVIATIONS AND ACRONYMS**

- **CAS** – Chemical Abstract Service
- **GHS** – Global Harmonized System
- **OSHA PEL** – Occupational Safety & Health Administration Permissible Exposure Limits
- **TWA** – Time Weighted Average
- **HSIS** – Hazardous Substances Information System
- **STEL** – Short Term Exposure Limit
- **AIHA WEEL** – American Industrial Hygiene Association Workplace Environment Exposure Levels
- **LD50** – Lethal Dose, 50%
- **IARC** – International Agency for Research on Cancer
- **NTP** – National Toxicology Program
- **WHMIS** – Workplace Hazardous Materials Information System
- **SARA** – Superfund Amendments and Reauthorization Act
- **EPA** – Environmental Protection Agency
- **CERCLA** – Comprehensive Environmental Response, Compensation, and Liability Act
- **HMSI** – Hazardous Materials Information System
- **NIOSH** – National Institute for Occupational Safety and Health
- **MSHA** – Mine Safety and Health Administration
- **ACGIH** – American Conference of Governmental Industrial Hygienists
- **IDHL** – Immediately Dangerous to Health or Life
- **TLV** – Threshold Limit Value
- **HSE** – Health and Safety Executive
- **REL** – Recommended Exposure Limit

**LAST REVISION**

11/2017

**SUPERSEDES**

09/2014

**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.