Safety Data Sheet  
Tincture of Benzoin Pump Sprayer

1. Identification

1.1. Product identifier

Product Identity: Tincture of Benzoin Pump Sprayer
Alternate Names: Tincture of Benzoin Pump Sprayer

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: Skin Preparation
Application Method: See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name: Smith & Nephew
970 Lake Carillon Drive, Suite 110
St. Petersburg, FL 33716

Emergency
Customer Service: Smith & Nephew 1-800-876-1261

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Flam. Liq. 2;H225: Highly Flammable liquid and vapor.
Skin Irrit. 3;H316: Causes mild skin irritation. (Not adopted by US OSHA)
Eye Irrit. 2;H319: Causes serious eye irritation.
Skin Sens. 1;H317: May cause an allergic skin reaction.
STOT SE 3;H336: May cause drowsiness or dizziness.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Danger

H225 Highly flammable liquid and vapor.
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness and dizziness.
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[Prevention]:
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P235 Keep cool.
P240 Ground / bond container and receiving equipment.
P241 Use explosion-proof electrical / ventilating / light / equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P313 Get medical advice / attention.
P321 Specific treatment (see information on this label).
P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
P337+313 If eye irritation persists: Get medical advice / attention.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P363 Wash contaminated clothing before reuse.
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:
P403+233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.
3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol</td>
<td>75 - 100</td>
<td>Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336</td>
<td>[1][2]</td>
</tr>
<tr>
<td>CAS Number: 0000067-63-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gum benzoin</td>
<td>1.0 - 10</td>
<td>Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 Aquatic Chronic 3;H412</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0009000-05-9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin
No first aid should be needed.

Ingestion
Do not induce vomiting. Contact the poison control center or a physician immediately for instructions.

4.2. Most important symptoms and effects, both acute and delayed

Overview
Acute Effects

Inhalation: Exposure to high air concentrations may cause mild irritation to nose and throat. Drowsiness, headache, and mild narcosis can occur from inhalation.

Eye: Exposure to high air concentrations may cause mild irritation to eyes.

Ingestion: Ingestion may cause drowsiness, burning of the gastrointestinal tract, and death. Ingestion may cause gastrointestinal pain, cramps, nausea and vomiting.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product. Impaired function from pre-existing disorders may be aggravated by exposure to this product.

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous...
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membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

**Inhalation**  
May cause drowsiness or dizziness.

**Eyes**  
Causes serious eye irritation.

**Skin**  
May cause an allergic skin reaction. Causes mild skin irritation. (Not adopted by US OSHA)

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### 5. Fire-fighting measures

**5.1. Extinguishing media**
Carbon dioxide, dry chemical, alcohol foam

**5.2. Special hazards arising from the substance or mixture**
Hazardous decomposition: Oxides of Carbon and unidentified organic compounds.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.  
Keep cool.  
Ground / bond container and receiving equipment.  
Use explosion-proof electrical / ventilating / light / equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust / fume / gas / mist / vapors / spray.

**5.3. Advice for fire-fighters**
Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.  
Wear self-contained breathing apparatus and protective clothing.

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128

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### 6. Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Put on appropriate personal protective equipment (see section 8).

**6.2. Environmental precautions**
Do not allow spills to enter drains or waterways.  
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**6.3. Methods and material for containment and cleaning up**
Mop or wipe up small spills. Ventilate area.
Dike large spills to minimize contamination and contain material. Remove all sources of heat and ignition. Absorb with sand or vermiculite. Ventilate area to dissipate vapors.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See section 2 for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Strong oxidizing agents

Store in a cool (≤ 77°F / 25°C), dry, well-ventilated area away from strong oxidizing agents, sources of heat, sparks, and open flames.

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000067-63-0</td>
<td>Isopropyl Alcohol</td>
<td>OSHA</td>
<td>TWA 400 ppm (980 mg/m3) STEL 500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA: 200 ppm STEL: 400 ppm Revised 2003,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>TWA 400 ppm (980 mg/m3) ST 500 ppm (1225 mg/m3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0009000-05-9</td>
<td>Gum benzoin</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

#### Carcinogen Data

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000067-63-0</td>
<td>Isopropyl Alcohol</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;</td>
</tr>
<tr>
<td>0009000-05-9</td>
<td>Gum benzoin</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Respiratory When working with small quantities in a well-ventilated area, respiratory protection may not be required.

Eyes None required for normal use.

Skin When working with small quantities in a well-ventilated area, protective clothing/equipment may not be required.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Transparent amber Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>-127°F (Isopropyl Alcohol)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>180°F (Isopropyl Alcohol)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>53°F / 11.7°C TCC</td>
</tr>
<tr>
<td>Evaporation rate (Ether = 1)</td>
<td>1.4 (Isopropyl Alcohol; nBuAc = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td><strong>Lower Explosive Limit:</strong> 2.5</td>
</tr>
<tr>
<td></td>
<td><strong>Upper Explosive Limit:</strong> 12</td>
</tr>
<tr>
<td>Vapor pressure (Pa)</td>
<td>32 mmHg @ 68°F (Isopropyl Alcohol)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>2.1 (Isopropyl Alcohol; Air = 1)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.85 @ 25°C (H2O = 1)</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Miscible</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity (cSt)</td>
<td>Not determined</td>
</tr>
<tr>
<td>VOC Content</td>
<td>Not available</td>
</tr>
<tr>
<td>% Volatile</td>
<td>93%</td>
</tr>
</tbody>
</table>

9.2. Other information

No other relevant information.
10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
Carbon monoxide and unidentified organic compounds may be formed during combustion.

10.4. Conditions to avoid
Avoid excessive heat, open flames and all ignition sources.

10.5. Incompatible materials
Strong oxidizing agents

10.6. Hazardous decomposition products
Oxides of Carbon

11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol - (67-63-0)</td>
<td>4,710.00, Rat - Category: 5</td>
<td>12,800.00, Rat - Category: NA</td>
<td>72.60, Rat - Category: NA</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Gum benzoin - (9000-05-9)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).
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<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>3</td>
<td>Causes mild skin irritation. (Not adopted by US OSHA)</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>2</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>1</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>3</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

12. Ecological information

12.1. Toxicity
The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol - (67-63-0)</td>
<td>1,400.00, Lepomis macrochirus</td>
<td>100.00, Daphnia magna</td>
<td>100.00 (72 hr), Scenedesmus subspicatus</td>
</tr>
<tr>
<td>Gum benzoin - (9000-05-9)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
There is no data available on the preparation itself.

12.3. Bioaccumulative potential
Not Measured

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects
No data available.
13. Disposal considerations

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

Notes:
1. May qualify for transportation under ‘Limited Quantities’ and/or ‘Excepted Quantities’ provisions. Consult applicable DOT, IMDG, IATA/ICAO regulations depending on transportation mode.
2. May qualify for transportation under ‘Consumer Commodity ORM-D’ provisions. Consult applicable DOT, IMDG, IATA/ICAO regulations depending on transportation mode.

<table>
<thead>
<tr>
<th>DOT (Domestic Surface Transportation)</th>
<th>IMO / IMDG (Ocean Transportation)</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1993</td>
<td>UN1993</td>
<td>UN1993</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2. UN proper shipping name</th>
<th>14.3. Transport hazard class(es)</th>
<th>14.4. Packing group</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1993, Flammable liquids, n.o.s.,</td>
<td>DOT Hazard Class: 3</td>
<td>II</td>
</tr>
<tr>
<td>(Isopropyl Alcohol), 3, II</td>
<td>IMDG: 3</td>
<td></td>
</tr>
<tr>
<td>Flammable liquids, n.o.s.,</td>
<td>Sub Class: Not Applicable</td>
<td></td>
</tr>
<tr>
<td>(Isopropyl Alcohol)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td>Marine Pollutant: No</td>
<td></td>
</tr>
</tbody>
</table>

14.6. Special precautions for user
No further information

15. Regulatory information

Regulatory Overview
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification
B2 D2B

US EPA Tier II Hazards
Fire: Yes
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:
Isopropyl Alcohol
Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):
- Isopropyl Alcohol

Pennsylvania RTK Substances (>1%):
- Isopropyl Alcohol

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness and dizziness.
H412 Harmful to aquatic life with long lasting effects.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

End of Document