Isopropyl Alcohol 70%
SDS Preparation Date (mm/dd/yyyy): 12/19/2017

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: Isopropyl Alcohol 70%

Product Code(s)

: 9900044
   Bottles: (2 oz and 4 oz)
   Canister: 50 count

Recommended use of the chemical and restrictions on use

: Personal Care Applications
   Restriction on use: None known

Chemical family

: Mixture.

Name, address, and telephone number of the supplier:

Safetec of America, Inc.
887 Kensington Avenue
Buffalo, NY, USA
14215
Supplier's Telephone # : 716-895-1822
24 Hr. Emergency Tel # : 1-800-255-3924

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear colourless liquid. Alcohol odour.

This product is sold as a personal care item that is safe for consumers and other users under normal and reasonably foreseeable use. As such, it is not regulated under Hazcom 2012/WHMIS 2015 labeling and SDS requirements do not apply.

Label elements

Hazard pictogram(s)

: None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

: Not required

Hazard statement(s)

: Not required

Precautionary statement(s)

: Not required

Other hazards

: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS #</th>
<th>Concentration (% by weight)</th>
</tr>
</thead>
</table>

Safetec of America, Inc.
887 Kensington Avenue
Buffalo, NY, USA, 14215
Telephone: (716) 895 1822
SECTION 4. FIRST-AID MEASURES

**Description of first aid measures**

- **Ingestion**: Harmful effects are not expected under normal usage. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- **Inhalation**: Harmful effects are not expected under normal usage. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- **Skin contact**: Harmful effects are not expected under normal usage. If skin irritation or rash occurs: Get medical advice/attention.

- **Eye contact**: If in eyes: Rinse cautiously with water for several minutes. If eye irritation persists: get medical advice/attention.

**Most important symptoms and effects, both acute and delayed**

None expected, when used as intended.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

- **Suitable extinguishing media**: Dry chemicals. Foam. Carbon dioxide (CO2). Water or fog spray.

- **Unsuitable extinguishing media**: Do not use water jet as extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture / Conditions of flammability**

- Highly flammable liquid and vapor.

**Flammability classification (OSHA 29 CFR 1910.106)**

- Flammable Liquids - Category 2

**Hazardous combustion products**

- Carbon oxides

**Special protective equipment and precautions for firefighters**

- **Protective equipment for fire-fighters**: Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing.

- **Special fire-fighting procedures**: Cool containers exposed to heat with water spray and remove container, if no risk is involved.

SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

- Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate personal protective equipment.

**Environmental precautions**

- Avoid release to the environment.

**Methods and material for containment and cleaning up**

- Wipe up with absorbent material (e.g. cloth, fleece).

**Special spill response procedures**

- Not applicable.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
SAFETY DATA SHEET

Conditions for safe storage
Keep containers closed when not in use.

Incompatible materials
Strong oxidizing agents. Acids.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Exposure Limits:</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>200 ppm</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

Exposure controls

Ventilation and engineering measures
None required under normal conditions.

Respiratory protection
None required under normal conditions.

Skin protection
None required under normal conditions.

Eye / face protection
None required under normal conditions.

Other protective equipment
None required when used as intended.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Clear colourless liquid.

Odour
Alcohol odour.

Odour threshold
Not available.

pH
7

Melting/Freezing point
Not available.

Initial boiling point and boiling range
82.22-100°C (180-212°F)

Flash point
11.7°C (53°F)

Flashpoint (Method)
Closed cup

Evaporation rate (BuAe = 1)
2

Flammability (solid, gas)
Not applicable.

Lower flammable limit (% by vol.)
2%

Upper flammable limit (% by vol.)
12%

Oxidizing properties
Not applicable

Explosive properties
Not explosive

Vapour pressure
Not available.

Vapour density
2.5

Relative density / Specific gravity
0.79

Solubility in water
Complete
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Other solubility(ies) : Not available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : Not available.
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Viscosity : Not available.
Volatile (% by weight) : Not available.
Volatile organic Compounds (VOC's) : Not available.
Absolute pressure of container : Not available.
Flame projection length : Not available.
Other physical/chemical comments : None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability : Material is stable under normal conditions.
Possibility of hazardous reactions : Hazardous polymerization does not occur.
Conditions to avoid : Keep away from heat, sparks and open flames.
Incompatible materials : See Section 7 (Handling and Storage) for further details.
Hazardous decomposition products : See Section 5 (Fire Fighting Measures).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption : YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation : None expected, when used as intended.
Sign and symptoms ingestion : None expected, when used as intended.
Sign and symptoms skin : None expected, when used as intended. Direct eye contact may cause irritation.
Sign and symptoms eyes : None expected, when used as intended. Direct eye contact may cause irritation.

Potential Chronic Health Effects : None expected, when used as intended.

Mutagenicity : Not expected to be mutagenic.
Carcinogenicity : This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
### SAFETY DATA SHEET

#### Reproductive effects & Teratogenicity

- Sensitization to material: Not expected to be a skin or respiratory sensitizer.
- Specific target organ effects: None expected, when used as intended.
- Medical conditions aggravated by overexposure: None reported by the manufacturer.

#### Toxicological data

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC$_{50}$(4hr) inh. rat</th>
<th>LD$_{50}$ (Oral, rat)</th>
<th>LD$_{50}$ (Rabbit, dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>17 000 ppm (41.8 mg/L) (vapour)</td>
<td>4720 mg/kg</td>
<td>12 890 mg/kg</td>
</tr>
</tbody>
</table>

#### Other important toxicological hazards

- None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: The product is not classified as environmentally hazardous. Avoid release to the environment.

#### Ecotoxicity data:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Fish</th>
<th>EC50 / 96h</th>
<th>NOEC / 21 day</th>
<th>M Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>NOEC / 21 day</td>
<td>N/Av</td>
<td>N/Av</td>
<td>None.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Daphnia</th>
<th>EC50 / 48h</th>
<th>NOEC / 21 day</th>
<th>M Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>NOEC / 21 day</td>
<td>&gt; 10 000 mg/L/24hr (Daphnia magna)</td>
<td>30 mg/L</td>
<td>None.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Algae</th>
<th>EC50 / 96h or 72h</th>
<th>NOEC / 96h or 72h</th>
<th>M Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>NOEC / 96h or 72h</td>
<td>N/Av</td>
<td>N/Av</td>
<td>None.</td>
</tr>
</tbody>
</table>

#### Persistence and degradability

- Not available.

#### Bioaccumulation potential

- Not available.

<table>
<thead>
<tr>
<th>Components</th>
<th>Partition coefficient n-octanol/water (log Kow)</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>0.05</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Mobility in soil: Not available.
SAFETY DATA SHEET

Other Adverse Environmental effects

None known or reported by the manufacturer.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal
Dispose of in accordance with local regulations.

Methods of Disposal
Dispose of in accordance with local regulations.

RCRA
Not applicable.

SECTION 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing Group</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>49CFR/DOT</td>
<td>UN1219</td>
<td>ISOPROPANOL; or</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>49CFR/DOT Additional information</td>
<td></td>
<td>ISOPROPYL ALCOHOL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LQ ground</td>
<td></td>
<td>II</td>
<td></td>
</tr>
<tr>
<td>49CFR/DOT Additional information</td>
<td></td>
<td>May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ICAO/IATA
ID8000
Consumer Commodity
9
none

ICAO/IATA Additional information
Refer to ICAO/IATA Packing Instruction

IMDG
UN1993
FLAMMABLE LIQUID, N.O.S. (Isopropanol)
LQ ground
III

IMDG Additional information
Must be a consumer-type product, in Limited Quantity size. Package weight must not exceed 30 kg gross.

Special precautions for user
Appropriate advice on safety must accompany the package.

Environmental hazards
This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not established.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:
Components listed below are present on the following U.S. Federal chemical lists:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>TSCA Inventory</th>
<th>CERCLA Reportable Quantity(RQ) (40 CFR 117.302):</th>
<th>SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:</th>
<th>SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical Toxic Chemical de minimus Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>Yes</td>
<td>None.</td>
<td>None.</td>
<td>Yes</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372; Flammable; Eye irritation; Specific target organ toxicity, single exposure. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>California Proposition 65</th>
<th>State &quot;Right to Know&quot; Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Listed</td>
<td>Type of Toxicity</td>
<td>CA</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Canadian Information:

All components of this product are on the Canadian DSL list.

WHMIS Classification: See Section 2.

International Information:

Components listed below are present on the following International Inventory list:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>European EINECs</th>
<th>Australia AICS</th>
<th>Philippines PICCS</th>
<th>Japan ENCS</th>
<th>Korea KECI/KECL</th>
<th>China IECSC</th>
<th>NewZealand IOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>Present</td>
<td>Present</td>
<td>(2)-207</td>
<td>KE-29363</td>
<td>Present</td>
<td>HSR001180</td>
</tr>
</tbody>
</table>

SECTION 16. OTHER INFORMATION

Legend:

- ACGIH: American Conference of Governmental Industrial Hygienists
- CA: California
- CAS: Chemical Abstract Services
- CEPA: Canadian Environmental Protection Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CPR: Controlled Products Regulation
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- DSL: Domestic Substances List
- EPA: Environmental Protection Agency
- HMIS: Hazardous Materials Identification System
- HPA: Hazardous Products Act
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- IMDG: International Maritime Dangerous Goods
- Inh: Inhalation
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts
- MN: Minnesota
- N/Ap: Not Applicable
- N/Av: Not Available
SAFETY DATA SHEET

NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OEL: National occupational exposure limits
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PPE: Personal Protective Equipment
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RQ: Reportable Quantity
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WEL: Workplace Exposure Limit
WHMIS: Workplace Hazardous Materials Identification System

References:
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
2. International Agency for Research on Cancer Monographs, searched 2017
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.

Preparation Date (mm/dd/yyyy): 12/19/2017

Other special considerations for handling:
Provide adequate information, instruction and training for operators.

Prepared for:
Safetec of America Inc.
887 Kensington Avenue
Buffalo, NY 14215

Prepared by:
ICC The Compliance Center Inc.
Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)
http://www.thecompliancecenter.com

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