SAFETY DATA SHEET

1. Identification

Product identifier  SaniZide Pro Disinfectant Solution
Other means of identification  Not available.
Recommended use  Not available.
Recommended restrictions  None known.
Manufacturer/Importer/Supplier/Distributor information
Manufacturer  Safetec of America, Inc.
887 Kensington Avenue
Buffalo, NY 14215
Company Telephone:  1-716-895-1822
E-mail Address:  www.safetec.com
Emergency Telephone:  1-800-255-3924
Supplier  Refer to Manufacturer

2. Hazard(s) identification

Physical hazards  Flammable liquids  Category 3
Health hazards  Serious eye damage/eye irritation  Category 2A
  Specific target organ toxicity, single exposure  Category 3 narcotic effects
Environmental hazards  This mixture does not meet the classification criteria according to OSHA HazCom 2012.
OSHA defined hazards  This mixture does not meet the classification criteria according to OSHA HazCom 2012.
Label elements

Signal word  Danger
Hazard statement  Flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.
Precautionary statement
  Prevention  Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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 mist or vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/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. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media for extinction.
  Storage  Keep cool. Store in a well-ventilated place. Keep container tightly closed.
  Disposal  Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)  None known.
Supplemental information  None.

3. Composition/information on ingredients

Mixtures

Material name: SaniZide Pro Disinfectant Solution
2123  Version #: 01  Issue date: 02-23-2015
<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>Dimethyl carbinol</td>
<td>67-63-0</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>2-Propanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Isopropyl alcohol</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Propan-2-ol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alkyl-dimethyl-benzyl ammonium chloride</td>
<td>Quaternary ammonium compound BENZALKONIUM CHLORIDE</td>
<td>68391-01-5</td>
<td>0.154</td>
</tr>
<tr>
<td>Alkyl-dimethyl-ethyl-benzyl ammonium chloride</td>
<td></td>
<td>68956-79-6</td>
<td>0.154</td>
</tr>
</tbody>
</table>

4. First-aid measures

**Inhalation**
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist.

**Skin contact**
Wash off with warm water and soap. Get medical attention if symptoms occur.

**Eye contact**
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms persist.

**Ingestion**
If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without advice from poison control center. Get medical attention.

**Most important symptoms/effects, acute and delayed**
Causes serious eye irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause drowsiness or dizziness.

**Indication of immediate medical attention and special treatment needed**
Treat symptomatically.

5. Fire-fighting measures

**Suitable extinguishing media**

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

**Specific hazards arising from the chemical**
The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. Thermal decomposition or combustion may liberate toxic gases or fumes.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**
Cool containers exposed to heat with water spray and remove container, if no risk is involved.

**General fire hazards**
Flammable liquid and vapor.

**Hazardous combustion products**
Carbon oxides.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**
Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical waste.

Large Spills: Flush with plenty of water. Prevent entry into waterways, sewer, basements or confined areas. Dike for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions**
Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

**Precautions for safe handling**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Eliminate all sources of ignition. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.
8. Exposure controls/personal protection

Occupational exposure limits

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>PEL</td>
<td>980 mg/m3</td>
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<tr>
<td></td>
<td></td>
<td>400 ppm</td>
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</tbody>
</table>

**US. ACGIH Threshold Limit Values**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

**US. NIOSH: Pocket Guide to Chemical Hazards**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>STEL</td>
<td>1225 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>980 mg/m3</td>
</tr>
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Biological limit values

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>40 mg/l</td>
<td>Acetone</td>
<td>Urine</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection**

Chemical resistant gloves recommended.

**Other**

Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health or safety professional or manufacturer for specific information.

**Respiratory protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Contact health and safety professional or manufacturer for specific information.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

**Appearance**

Liquid.

**Physical state**

Liquid.

**Form**

Liquid.

**Color**

Colorless.

**Odor**

Alcoholic.

**Odor threshold**

Not available.

**pH**

7.6 - 7.8

**Melting point/freezing point**

14 °F (-10 °C)

**Initial boiling point and boiling range**

188 °F (86.67 °C)

**Flash point**

87.0 °F (30.6 °C) Closed Cup

**Evaporation rate**

Similar to water.
Flammability (solid, gas)  Not applicable.
Upper/lower flammability or explosive limits
Explosive limit - lower (%)  Not available.
Explosive limit - upper (%)  Not available.
Vapor pressure  0.2 - 4.7 mm Hg
Vapor density  > 1
Relative density  Not available.
Solubility(ies)
Solubility (water)  Complete.
Partition coefficient (n-octanol/water)  Not available.
Auto-ignition temperature  Not available.
Decomposition temperature  Not available.
Viscosity  Not available.
Other information
Specific gravity  0.95 - 0.97
VOC (Weight %)  0 %

10. Stability and reactivity
Reactivity  The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability  Stable at normal conditions.
Possibility of hazardous reactions  Hazardous polymerization does not occur.
Conditions to avoid  Keep away from heat, sparks and open flame. High temperatures.
Incompatible materials  Strong oxidizing agents. Acids.
Hazardous decomposition products  Carbon oxides.

11. Toxicological information
Information on likely routes of exposure
Inhalation  May cause drowsiness or dizziness.
Skin contact  Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Eye contact  Causes serious eye irritation.
Ingestion  Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Most important symptoms/effects, acute and delayed  Causes serious eye irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause drowsiness or dizziness.

Information on toxicological effects
Acute toxicity  Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
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<td>Isopropanol (CAS 67-63-0)</td>
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<tr>
<td><strong>Acute</strong></td>
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</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
<td></td>
</tr>
</tbody>
</table>

Material name: SaniZide Pro Disinfectant Solution
2123  Version #: 01  Issue date: 02-23-2015
SDS US
4 / 8
Respiratory or skin sensitization
Respiratory sensitization This product is not expected to cause respiratory sensitization.
Skin sensitizers This product is not expected to cause skin sensitization.
Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Reproductive toxicity This product is not expected to cause reproductive effects.
Specific target organ toxicity - single exposure May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure Not classified as a specific target organ toxicity - repeated exposure.
Aspiration toxicity Not expected to be an aspiration hazard.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>1400 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>9640 mg/l, 96 hours</td>
</tr>
<tr>
<td>Chronic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>NOEC</td>
<td>30 mg/l, 21 days</td>
</tr>
</tbody>
</table>

Persistence and degradability Not available.
Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)
Isopropanol 0.05

Bioconcentration factor (BCF)
Isopropanol 1

Mobility in soil Not available.
Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations Dispose in accordance with all applicable regulations.
Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT
UN number UN1987
UN proper shipping name Alcohols, n.o.s. (Isopropanol RQ = 101 LBS)
Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
Packing group III
Special precautions for user: Not available.
Special provisions: 172, B1, IB3, T4, TP1, TP29
Packaging exceptions: 4b, 150
Packaging non bulk: 203
Packaging bulk: 242

IATA
UN number: UN1987
UN proper shipping name: Alcohols, n.o.s. (Isopropanol)
Transport hazard class(es):
- Class: 3
- Subsidiary risk: -
- Packing group: III
- Environmental hazards: No.
- ERG Code: 3L
Special precautions for user: Not available.
Other information:
- Passenger and cargo aircraft: Allowed.
- Cargo aircraft only: Allowed.

IMDG
UN number: UN1987
UN proper shipping name: ALCOHOLS; N.O.S. (Isopropanol)
Transport hazard class(es):
- Class: 3
- Subsidiary risk: -
- Packing group: III
- Environmental hazards: No.
- EmS: F-E, S-D
Special precautions for user: Not available.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

DOT

IATA; IMDG

15. Regulatory information
US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Isopropanol (CAS 67-63-0) Listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

SARA 313 (TRI reporting)
<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>21</td>
</tr>
</tbody>
</table>

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations
US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. Massachusetts RTK - Substance List
Isopropanol (CAS 67-63-0)

US. New Jersey Worker and Community Right-to-Know Act
Isopropanol (CAS 67-63-0)

US. Pennsylvania Worker and Community Right-to-Know Law
Isopropanol (CAS 67-63-0)

US. Rhode Island RTK
Isopropanol (CAS 67-63-0)

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDLS)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Issue date</th>
<th>Version #</th>
</tr>
</thead>
<tbody>
<tr>
<td>02-23-2015</td>
<td>01</td>
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Disclaimer

Prepared by: ICC The Compliance Center Inc. 1-888-442-9628
http://www.thecompliancecenter.com

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Bibliography

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices (2014)
Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2014 (Chempendium, RTECs, HSDB, INCHEM)
Material Safety Data Sheet from manufacturer,