SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Instant Hand Sanitizing Wipes
MFR #: 16-3400

DISTRIBUTED BY: McKesson Medical-Surgical Inc.
9954 Mayland Drive, Suite 4000
Richmond, VA 23233

INFORMATION LINE: 1-800-777-4908 Monday – Friday 8:00 a.m. – 6:00 p.m. EST

EMERGENCY PHONE: 1-800-451-8346 (3E Company) Day or Night

SECTION 2: HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>Flammable solids</th>
<th>Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>OSHA defined hazards</td>
<td>None additional</td>
<td></td>
</tr>
</tbody>
</table>

Label elements

**Signal word**
- Danger

**Hazard statement**
- Flammable solid.
- Causes serious eye irritation.

**Precautionary statement**

**Prevention**
- Keep away from fire or flame.
- Keep container closed.

**Response**
- 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.
- If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
- In case of fire: Use appropriate media to extinguish.

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

**Disposal**
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
- None known.

Supplemental information
- Not applicable.

SECTION 3: COMPOSITION
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Percent%</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>70</td>
<td>Flam. Liq. Category 2 (H225)</td>
</tr>
<tr>
<td>Non-Hazardous Ingredients</td>
<td>Proprietary</td>
<td>30</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Composition comments**: The exact % concentration of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA HCS 1910.1200. All concentrations are expressed as % volume.

**SECTION 4: FIRST AID MEASURES**

**Inhalation**
If inhaled for a prolonged period of time, remove person to fresh air and keep comfortable for breathing.

**Skin contact**
Discontinue use if irritation and redness develop. If condition persists for more than 72 hours, consult a physician.

**Eye contact**
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.

**Ingestion**
If swallowed, get medical help or contact a Poison Control Center immediately.

**Most important symptoms/effects, acute and delayed**
- Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision.
- Direct contact with eyes may cause temporary irritation.
- Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

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

**General information**
If you feel unwell, seek medical advice (show the label where possible). Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes. Keep away from sources of ignition. No smoking. Keep out of reach of children.

**SECTION 5: FIRE & EXPLOSION HAZARD DATA**

**Suitable extinguishing media**
Dry chemical. Carbon dioxide. Foam.

**Unsuitable extinguishing media**
Do not use water jet.

**Specific hazards arising from the chemical**
During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus.

**Special protective equipment and precautions for firefighters**
Firefighters should wear full protective clothing including self-contained breathing apparatus.

**Fire-fighting equipment/instructions**
- In case of fire and/or explosion do not breathe fumes.
- In the event of fire, cool tanks with water spray.
- Move containers from fire area if you can do so without risk.

**Specific methods**
Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**
Flammable solid.
Hazardous combustion products
May include and are not limited to: Oxides of carbon.

Explosion data
Sensitivity to mechanical impact
Not available.
Sensitivity to static discharge
Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear appropriate protective equipment and clothing during clean-up. Avoid contact with eyes. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering waterways. Contact emergency services and supplier for advice.

Large Spills: Following product recovery, flush area with water. Wipe or mop up liquid, if any,

Environmental precautions
Do not discharge into waterways

SECTION 7: HANDLING & STORAGE

Precautions for safe handling
WARNING
Flammable, keep away from fire or flame.
Do not use in contact with eyes.
For external use only.

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.
Avoid prolonged exposure.
Keep container closed.
Use according to package label instructions.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry place out of direct sunlight.
Store in a closed container away from incompatible materials.
Store in a well-ventilated place.
Keep away from heat, open flames or other sources of ignition.
Store away from incompatible materials (see Section 10 of the SDS). Keep this out of reach of children unless under adult supervision.

SECTION 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>Ethyl Alcohol (CAS 64-17-5)</td>
<td>PEL</td>
<td>1900 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 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>
</table>
Ethyl Alcohol (CAS 64-17-5)  

TWA  

1900 mg/m³  

1000 ppm  

**Biological limit values**  
No biological exposure limits noted for the ingredient(s).  

**Exposure guidelines**  
See above  

**Appropriate engineering controls**  
General ventilation normally adequate. Provide eyewash station.  

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

**Eye/face protection**  
Wear gear as deemed necessary. Follow label directions.  

**Skin protection**  

**Hand protection**  
Not required.  

**Other**  
As required by employer code. Follow label directions carefully.  

**Respiratory protection**  
Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.  
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. Wear positive pressure self-contained breathing apparatus (SCBA).  

**Thermal hazards**  
Not applicable.  

**General hygiene considerations**  
Handle in accordance with good industrial hygiene and safety practice. When using do not smoke.  

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**SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS**  

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid saturated on wipe</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid saturated on wipe</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>3.5~8.5</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Upper/lower flammability or explosive limits:**
Flammability limit – lower (%) Not available
Flammability limit – upper (%) Not available
Explosive limit - lower (%) Not available
Explosive limit - upper (%) Not available
Vapor pressure Not available
Vapor density Not available
Relative density Not available
Solubility Not available
Auto-ignition temperature Not available
Decomposition temperature Not available
Viscosity Not available

Other information

Flash point class Combustible II

SECTION 10: STABILITY AND REACTIVITY

Reactivity This product may react with strong oxidizing agents.
Possibility of hazardous reactions Hazardous polymerization does not occur.
Chemical stability Stable under recommended storage conditions.
Conditions to avoid Do not mix with other chemicals.
Avoid heat, sparks, open flames and other ignition sources.
Incompatible materials Strong oxidizing agents. Oxidizers.
Hazardous decomposition products May include and are not limited to: Oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.
Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.
Inhalation Prolonged inhalation may be harmful. May cause irritation to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Skin contact Non-irritating based on test data.
Eye contact May be irritating to eyes.
Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects
**Acute toxicity**
Narcotic effects. May cause respiratory irritation.

Toxicity data in this section is based on individual component information and not based on the finished product.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(CAS 64-17-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Mouse</td>
<td>39 mg/l, 4 Hours</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>31623 ppm, 4 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20000 ppm, 10 hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Dog</td>
<td>5500 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Guinea pig</td>
<td>5600 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Mouse</td>
<td>3450 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>7060 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
Non-irritating based on test data.

<table>
<thead>
<tr>
<th>Exposure minutes</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erythema value</td>
<td>Not available</td>
</tr>
<tr>
<td>Oedema value</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Serious eye damage/eye irritation**
May cause irritation.

<table>
<thead>
<tr>
<th>Corneal opacity value</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iris lesion value</td>
<td>Not available</td>
</tr>
<tr>
<td>Conjunctival reddening value</td>
<td>Not available</td>
</tr>
<tr>
<td>Conjunctival oedema value</td>
<td>Not available</td>
</tr>
<tr>
<td>Recover days</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Respiratory or skin sensitization**
Not classified

This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**
The finished product is not expected to have chronic health effects.

**Mutagenicity**
The finished product is not expected to have chronic health effects.

**Carcinogenicity**
The finished product is not expected to have chronic health effects.
Reproductive toxicity: The finished product is not expected to have chronic health effects.

Teratogenicity: The finished product is not expected to have chronic health effects.

Specific target organ toxicity - single exposure: Not classified.

Specific target organ toxicity - repeated exposure: Not classified.

Aspiration hazard: Not classified.

Chronic effects: The finished product is not expected to have chronic health effects.

Further information: Not available.

Name of Toxicologically Synergistic Products: Not available.

### SECTION 12: ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>See below</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>Species</td>
</tr>
<tr>
<td>Ethyl Alcohol (CAS 64-17-5)</td>
<td>Crusta</td>
</tr>
<tr>
<td>Aquatic</td>
<td>EC 50 Water flea (Daphnia magna)</td>
</tr>
<tr>
<td>Crustacea</td>
<td>LC50 Fathead minnow (Pimephales promelas)</td>
</tr>
</tbody>
</table>

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Mobility in general: Not available.

Other adverse effects: Not available.

### SECTION 13: DISPOSAL CONSIDERATIONS

Disposal instructions: Review federal, state/provincial, and local government requirements prior to disposal. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations: See above.

Hazardous waste code: Not assigned.

Waste from residues/Unused products: Empty containers 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.
SECTION 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

Basic shipping requirements:

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN3175</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Solids containing flammable liquid, n.o.s. (Alcohol)</td>
</tr>
<tr>
<td>Hazard class</td>
<td>4.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>Packaging exceptions</td>
<td>&lt; 1 kg – limited quantity (par. 173.151)</td>
</tr>
</tbody>
</table>

Note: Individually wrapped packet product is exempted from DOT regulation per Special Provision 47.

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN3175</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethyl Alcohol)</td>
</tr>
<tr>
<td>Hazard class</td>
<td>4.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>Packaging exceptions</td>
<td>&lt;1Kg-Limited Quantity</td>
</tr>
</tbody>
</table>

DOT; TDG

SECTION 15: REGULATORY INFORMATION

US federal regulations

- This product contains a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

- Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

- Not listed.
US CAA Section 111 Volatile Organic Compounds: Listed substance

- Alcohol (CAS 64-17-5) Listed.
- Propylene glycol (CAS 57-55-6) Listed.

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

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

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 No
- SARA 311/312 Hazardous chemical No
- SARA 313 (TRI reporting) Not regulated.

Other federal regulations
- Food and Drug Administration (FDA): Regulated as a monograph drug product.

US - California Hazardous Substances (Director's): Listed substance
- Ethyl Alcohol (CAS 64-17-5) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
- Not listed.

- Ethyl Alcohol (CAS 64-17-5) Listed.

US - Louisiana Spill Reporting: Listed substance
- Ethyl Alcohol (CAS 64-17-5) Listed.

US. Massachusetts RTK - Substance List
- Ethyl Alcohol (CAS 64-17-5) Listed.

US. Rhode Island RTK
- Not regulated.

Canadian federal regulations
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number
- Ethyl Alcohol (CAS 64-17-5) 1 TONNES
SECTION 16: OTHER INFORMATION

**LEGEND**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
</tr>
</tbody>
</table>

**Issue date** 01-September-2017

**Effective date** 01-September-2017

**Expiry date** 01-September-2020

**Other information** This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

**DISCLAIMER:** This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer’s knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user’s responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.