SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: PSP Cleaning Wipes

Product Code(s): (Premoistened towelette)

Recommended use of the chemical and restrictions on use

: Cleaning wipes for phosphor storage plates (PSPs) and plate protectors.
   Restriction on use: None known

Chemical family

: Mixture.

Name, address, and telephone number of the supplier:

Air Techniques, Inc.
1295 Walt Whitman Road
Melville, NY, USA
11747

Supplier's Telephone #: 516-433-7676

24 Hr. Emergency Tel #: Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Towelette / pad saturated with clear, colourless liquid. Alcohol odour.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification

Flammable solid - Category 2
Serious eye damage/eye irritation - Category 2A
Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects

Label elements

Hazard pictogram(s)

Signal Word

DANGER!

Hazard statement(s)

Flammable solid
Causes serious eye irritation.
May cause drowsiness or dizziness.
Precautionary statement(s)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Wash thoroughly after handling.
Avoid breathing mist or vapor.
Use in a well-ventilated area.
Wear protective gloves.

In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.
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.
Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification: Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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>
<tbody>
<tr>
<td>Isopropanol</td>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>98.0 - 100.0</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

**Ingestion**: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
**Inhalation**: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
**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**

- Causes serious eye irritation.
- Vapours may cause drowsiness and dizziness.

**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.
SAFETY DATA SHEET

Special hazards arising from the substance or mixture / Conditions of flammability
- Vapors are heavier than air and may spread along floors. 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).

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Do not ingest or swallow. Observe good industrial hygiene practices.

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

Incompatible materials
- Strong oxidizing agents. Acids.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></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
- Wear protective gloves.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Towelette / pad saturated with clear, colourless liquid.</td>
</tr>
<tr>
<td>Odour</td>
<td>Alcohol odour.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting/Freezing point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>82.26°C (180.07°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;12°C (53°F)</td>
</tr>
<tr>
<td>Flashpoint (Method)</td>
<td>Closed cup</td>
</tr>
<tr>
<td>Evaporation rate (BuAe = 1)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Lower flammable limit (% by vol.)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Upper flammable limit (% by vol.)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density / Specific gravity</td>
<td>0.79</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Complete</td>
</tr>
<tr>
<td>Other solubility(ies)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
</tr>
<tr>
<td>or Coefficient of water/oil distribution</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Volatiles (% by weight)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Volatile organic Compounds (VOC's)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Absolute pressure of container</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flame projection length</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other physical/chemical comments</td>
<td>None known or reported by the manufacturer.</td>
</tr>
</tbody>
</table>

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.
SAFETY DATA SHEET

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

May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

Sign and symptoms ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

None expected, when used as intended.

Sign and symptoms eyes

None expected, when used as intended. Direct eye contact may cause irritation. Symptoms may include tearing, redness and discomfort.

Potential Chronic Health Effects

Mutagenicity

None expected, when used as intended.

Carcinogenicity

Not expected to be mutagenic.

Reproductive effects & Teratogenicity

This product is not expected to cause reproductive or developmental effects.

Sensitization to material

Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects
May cause drowsiness or dizziness.
Not classified as specific target organ toxicity-repeated exposure.

Medical conditions aggravated by overexposure

None reported by the manufacturer.

Synergistic materials

None reported by the manufacturer.

Toxicological data

See below for individual ingredient acute toxicity data.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC₅₀(4hr) inh, rat (Rabbit, dermal)</th>
<th>LD₅₀ Oral, rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</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.
SAFETY DATA SHEET

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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>LC50 / 96h</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>9640 mg/L (Fathead minnow)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EC50 / 48h</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>&gt; 10 000 mg/L/24hr (Daphnia magna)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EC50 / 96h or 72h</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>N/Av</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.

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>ICAO/IATA None.</td>
<td>Not regulated.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Additional information**

Special provision A46 allows for UN 3175, Solids, Containing flammable liquid, N.O.S. in sealed packages, containing less than 10 ml to be exempted from the regulations, provided there is no free liquid in the packet.

**ICAO/IATA**

Not regulated.

**49CFR/DOT**

Not regulated.

**Additional information**

Special provision 47 allows for UN3175, Solids, Containing flammable liquid, N.O.S. in sealed packages, containing less than 10 ml to be exempted from the regulations, provided there is no free liquid in the packet.

**Special precautions for user**

None known or reported by the manufacturer.

**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></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></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>

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: Flammable; Eye irritation. 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>Isopropanol</td>
<td>67-63-0</td>
<td>No</td>
<td>CA MA MN NJ PA RI</td>
</tr>
<tr>
<td></td>
<td></td>
<td>N/Ap</td>
<td>Yes Yes Yes Yes Yes Yes</td>
</tr>
</tbody>
</table>

**Canadian Information:**

All components of this product are on the Canadian DSL list. WHMIS Classification: See Section 2.
## SAFETY DATA SHEET

### 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
- 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
SAFETY DATA SHEET

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): 02/05/2018
Other special considerations for handling: Provide adequate information, instruction and training for operators.

Prepared for:
Air Techniques, Inc.
1295 Walt Whitman Road
Melville, NY 11747
516-433-7676

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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END OF DOCUMENT