1. Identification

Product identifier: Aquapel Anti-Fog Interior Glass Treatment

Other means of identification:
- Product code: 47106, 47107
- Recommended use: Anti-fog Agent.
- Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:
- Manufacturer: Kwick Paint Products
  6040 Russell
  Detroit, MI 48211
- Telephone: 313-873-8800
- Distributor: Pittsburgh Glass Works, LLC
  30 Isabella Street
  Suite 500
  Pittsburgh, PA 15212 US
- General Assistance: +1-800-861-4999
- Emergency telephone numbers:
  USA: +1-760-476-3962
  Europe, Middle East, Africa: +1-760-476-3961
  Asia Pacific: +1-760-476-3960
- Access code: 333225
- E-mail: info@pgwglass.com

2. Hazard(s) identification

Physical hazards: Flammable liquids - Category 2

Health hazards: Serious eye damage/eye irritation - Category 1

Environmental hazards:
- Hazardous to the aquatic environment, acute hazard - Category 3
- Hazardous to the aquatic environment, long-term hazard - Category 3

OSHA defined hazards: Not classified.

Label elements:

Signal word: Danger

Hazard statement: Highly flammable liquid and vapor. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

Precautionary statement:
3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>75</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>11</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>5</td>
</tr>
<tr>
<td>Polymodified seloxane</td>
<td>NA</td>
<td>5</td>
</tr>
<tr>
<td>Sodium dodecybenzenesulfonate</td>
<td>25155-30-0</td>
<td>4</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact
Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Use soap if available. Get medical attention if irritation develops or persists.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses. Continue rinsing. Get medical attention immediately.

Ingestion
Rinse mouth thoroughly with water. Only induce vomiting at the instruction of medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed
Symptoms include itching, burning, redness and tearing. Vapors may cause drowsiness and dizziness. Defats the skin.

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

General information
If you feel unwell, seek medical advice (show the label where possible). Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
During fire, traces of gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
Use water spray to cool unopened containers. Move containers from fire area if you can do so safely.

General fire hazards
The product is highly flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures.
6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Keep out of low areas.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

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

Never return spills in original containers for re-use.

Environmental precautions

Do not contaminate water.

7. Handling and storage

Precautions for safe handling

Avoid breathing mists or vapors. Avoid contact with skin and eyes. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Explosion-proof general and local exhaust ventilation is recommended. In case of inadequate ventilation, use respiratory protection. Wash thoroughly after handling. Eliminate all sources of ignition. The product is highly flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Follow rules for flammable liquids. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Store in accordance with local/regional/national/international regulation. Keep only in the original container in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Do not store in open or unlabelled containers. Keep out of the reach of children. Protect from direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

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>Ethanol (CAS 64-17-5)</td>
<td>PEL</td>
<td>1900 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Isopropyl alcohol (CAS 67-63-0)</td>
<td>PEL</td>
<td>980 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 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>Ethanol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Isopropyl alcohol (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>Ethanol (CAS 64-17-5)</td>
<td>TWA</td>
<td>1900 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Isopropyl alcohol (CAS 67-63-0)</td>
<td>STEL</td>
<td>1225 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>980 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
</tbody>
</table>
### Biological limit values

**ACGIH Biological Exposure Indices**

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol (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.

### Exposure guidelines

No exposure standards allocated.

### Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Provide eyewash station.

### 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 required for prolonged or repeated contact. Rubber gloves are recommended. Suitable gloves can be recommended by the glove supplier.

- **Other**: Full body suit and boots are recommended when handling large volumes or in emergency situations.

#### Respiratory protection

Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

Do not get in eyes. Avoid contact with skin. Do not get this material on clothing. When using, do not eat, drink or smoke. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

#### Appearance

- **Physical state**: Liquid.
- **Form**: Liquid.
- **Color**: Clear.
- **Odor**: Alcohol odor.
- **Odor threshold**: Not available.
- **pH**: Not available.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: Not available.
- **Flash point**: 58.0 °F (14.4 °C)
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not applicable.

#### 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

0.994

#### Solubility(ies)

#### Solubility (water)

Soluble in water.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not available.

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 Heat and direct sunlight. Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials Strong oxidizers, strong acids, and strong bases.

Hazardous decomposition products Thermal decomposition can produce Carbon oxides, Sulfur oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation Vapors may irritate throat and respiratory system and cause coughing. In high concentrations, vapors are narcotic and may cause headache, fatigue, dizziness and nausea.

Skin contact May cause skin irritation.

Eye contact Causes serious eye damage.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms include itching, burning, redness and tearing. Vapors may cause drowsiness and dizziness. Defats the skin.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species Test Results

<table>
<thead>
<tr>
<th>Ethanol (CAS 64-17-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation Not classified.
Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization 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 reported to cause reproductive effects in humans.

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Not classified.

Chronic effects Prolonged or repeated contact may dry skin and cause irritation.
12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>Aquatic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crustacea</td>
<td>EC50</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td>Sodium dodecylbenzenesulfonate (CAS 25155-30-0)</td>
<td>Aquatic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crustacea</td>
<td>EC50</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
</tr>
</tbody>
</table>

Persistence and degradability

The product is not expected to be readily biodegradable.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>-0.31</td>
</tr>
<tr>
<td>Sodium dodecylbenzenesulfonate (CAS 25155-30-0)</td>
<td>0.45</td>
</tr>
</tbody>
</table>

Mobility in soil

This product is water soluble and may disperse in soil.

Mobility in general

The product contains organic solvents which will evaporate easily from all surfaces.

Other adverse effects

The product contains a substance which has a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions

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

Hazardous waste code

D001: Waste Flammable material with a flash point <140 °F

Waste from residues / unused products

Dispose of in accordance with local regulations.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

14. Transport information

DOT

UN number: UN1987
UN proper shipping name: Alcohols, n.o.s. (Ethanol, Isopropyl alcohol)
Class: 3
Subsidiary risk: -
Label(s): 3
Packing group: II
Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
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. (Ethanol, Isopropyl alcohol)
Class: 3
Subsidiary risk: -
Label(s): 3
Packing group: II
Environmental hazards: No
ERG Code: 3L
Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
### IMDG

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1987</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Alcohols, n.o.s. (Ethanol, Isopropyl alcohol)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>3</td>
</tr>
<tr>
<td>Class</td>
<td>3</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
<tr>
<td>Label(s)</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>II</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>No</td>
</tr>
<tr>
<td>EmS</td>
<td>F-E, S-D</td>
</tr>
</tbody>
</table>

### Special precautions for user
- Read safety instructions, SDS and emergency procedures before handling.
- This product is a liquid and when transported in bulk is covered under MARPOL 73/78 Annex II. This product is listed in the IBC Code.
- Ship type: 1
- Pollution category: Z

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- Not regulated.
- Not listed.
- Not regulated.
- Not regulated.

### 15. Regulatory information

#### US federal regulations
- This product is 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.
  - Not listed.
- CERCLA Hazardous Substance List (40 CFR 302.4)
  - Ethanol (CAS 64-17-5) LISTED
  - Isopropyl alcohol (CAS 67-63-0) LISTED
  - Sodium dodecylbenzenesulfonate (CAS 25155-30-0) LISTED

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)
- 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>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>5</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
- This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.
- US. Massachusetts RTK - Substance List
  - Ethanol (CAS 64-17-5)
  - Isopropyl alcohol (CAS 67-63-0)
  - Sodium dodecylbenzenesulfonate (CAS 25155-30-0)
- US. New Jersey Worker and Community Right-to-Know Act
  - Ethanol (CAS 64-17-5)
  - Isopropyl alcohol (CAS 67-63-0)
Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

**US. Pennsylvania Worker and Community Right-to-Know Law**
- Ethanol (CAS 64-17-5)
- Isopropyl alcohol (CAS 67-63-0)
- Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

**US. Rhode Island RTK**
- Isopropyl alcohol (CAS 67-63-0)
- Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

**US. California Proposition 65**
- Not Listed.

### 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 (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<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 this product complies 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

**Issue date** 18-May-2015
**Revision date** -
**Version #** 01

**Further information**
HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**
- Health: 3
- Flammability: 3
- Physical hazard: 0

**NFPA ratings**

![NFPA ratings](image)

**List of abbreviations**
- LC50: Lethal Concentration, 50%.
- EC50: Effective concentration, 50%.

### Disclaimer
The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PGW, and to recommend precautionary measures for the storage and handling of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.