WINDEX® POWERIZED FOAMING GLASS CLEANER

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name: WINDEX® POWERIZED FOAMING GLASS CLEANER
Recommended use: Hard Surface Cleaner

Manufacturer, importer, supplier:
S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Telephone: +18005585252
Emergency telephone number:
24 Hour Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

<table>
<thead>
<tr>
<th>Hazard classification</th>
<th>Hazard category</th>
<th>Hazards identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerosol</td>
<td>Category 2</td>
<td>Flammable aerosol.</td>
</tr>
<tr>
<td>Gases under pressure</td>
<td>Compressed gas</td>
<td>Contains gas under pressure; may explode if heated.</td>
</tr>
</tbody>
</table>

Labelling

Hazard symbols
Flame
Gas cylinder

Signal word
Warning

Hazard statements
Flammable aerosol.
Contains gas under pressure; may explode if heated.

Precautionary statements
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Protect from sunlight. Store in a well-ventilated place.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
**Other hazards**: None identified

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>1.00 - 5.00</td>
</tr>
<tr>
<td>Propylene glycol monobutyl ether</td>
<td>5131-66-8</td>
<td>1.00 - 5.00</td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

### 4. FIRST AID MEASURES

- **Eye contact**: No special requirements
- **Skin contact**: No special requirements
- **Inhalation**: No special requirements.
- **Ingestion**: No special requirements

### 5. FIREFIGHTING MEASURES

- **Suitable extinguishing media**: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Specific hazards during firefighting**: Aerosol Product - Containers may rocket or explode in heat of fire.
- **Further information**: Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. Fight fire with normal precautions from a
6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Remove all sources of ignition. Wash thoroughly after handling.

Environmental precautions : Outside of normal use, avoid release to the environment.

Methods and materials for containment and cleaning up : If damage occurs to aerosol can:
- Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
- Use only non-sparking equipment.
- Dike large spills.
- Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing.
- For personal protection see section 8.
- Use only as directed.
- KEEP OUT OF REACH OF CHILDREN AND PETS.
- Pressurized container.
- Do not pierce or burn, even after use.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.
- Do not spray on an open flame or other ignition source.

Storage

Requirements for storage areas and containers : Keep container closed when not in use.
- Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>mg/m³</th>
<th>ppm</th>
<th>Non-standard units</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>-</td>
<td>1,000 ppm</td>
<td>-</td>
<td>ACGIH STEL</td>
</tr>
</tbody>
</table>

**Personal protective equipment**

- **Respiratory protection**: No special requirements.
- **Hand protection**: No special requirements.
- **Eye protection**: No special requirements.
- **Skin and body protection**: No special requirements.
- **Hygiene measures**: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Form**: aerosol
  Compressed gas
- **Color**: translucent
- **Odor**: characteristic
- **Odour Threshold**: No data available
- **pH**: 11 at (25 °C)
WINDEX® POWERIZED FOAMING GLASS CLEANER

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : $< -7 \, ^\circ C$
$< 19.4 \, ^\circ F$
Method: Tag Closed Cup (TCC)
Propellant

Evaporation rate : No data available

Flammability (solid, gas) : Does not sustain combustion.

Upper/lower flammability or explosive limits : No data available

Vapour pressure : No data available

Vapour density : No data available

Relative density : 8.327 lb/gal at 20 C

Solubility(ies) : soluble

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : not auto-flammable

Decomposition temperature : No data available
WINDEX® POWERIZED FOAMING GLASS CLEANER

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : not determined

Volatile Organic Compounds : 6.9 % - additional exemptions may apply
Total VOC (wt. %)* : as defined by US Federal and State Consumer Product Regulations
Other information : None identified

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Do not mix with bleach or any other household cleaners. Strong bases

Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Emergency Overview : Warning

Acute oral toxicity : LD50 Measured > 5,000 mg/kg
WINDEX® POWERIZED FOAMING GLASS CLEANER

Version 1.1

Print Date 03/04/2015

Revision Date 02/25/2015

SDS Number 350000021130

Acute inhalation toxicity

: LC50

Measured

> 5.59 mg/l

Acute dermal toxicity

: LD50

Measured

> 5,000 mg/kg

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
<th>Routes of entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Skin corrosion/irritiation</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Respiratory sensitisation</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No classification proposed</td>
<td>-</td>
</tr>
</tbody>
</table>

Aggravated Medical Condition

: None known.
12. ECOLOGICAL INFORMATION

Product: The product itself has not been tested.

Toxicity
The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

Toxicity to fish

<table>
<thead>
<tr>
<th>Components</th>
<th>End point</th>
<th>Species</th>
<th>Value</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>LC50</td>
<td>Fish</td>
<td>27.98 mg/l</td>
<td>96 h</td>
</tr>
<tr>
<td>Propylene glycol monobutyl ether</td>
<td>static test LC50</td>
<td>Poecilia reticulata (guppy)</td>
<td>&gt; 560 - 1,000 mg/l</td>
<td>96 h</td>
</tr>
</tbody>
</table>

Toxicity to aquatic invertebrates

<table>
<thead>
<tr>
<th>Components</th>
<th>End point</th>
<th>Species</th>
<th>Value</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>LC50</td>
<td>Daphnid</td>
<td>16.33 mg/l</td>
<td>48 h</td>
</tr>
<tr>
<td>Propylene glycol monobutyl ether</td>
<td>static test EC50</td>
<td>Daphnia magna (Water flea)</td>
<td>&gt; 1,000 mg/l</td>
<td>48 h</td>
</tr>
</tbody>
</table>

Toxicity to aquatic plants

<table>
<thead>
<tr>
<th>Components</th>
<th>End point</th>
<th>Species</th>
<th>Value</th>
<th>Exposure time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>EC50</td>
<td>Green algea</td>
<td>8.57 mg/l</td>
<td>96 h</td>
</tr>
</tbody>
</table>
Propylene glycol monobutyl ether | EC50 | Pseudokirchneriella subcapitata (green algae) | > 1,000 mg/l | 72 h
---|---|---|---|---
Isobutane | 70 % | < 10 d | Readily biodegradable
Propylene glycol monobutyl ether | 90 % | 28 d | Readily biodegradable

Persistence and degradability

<table>
<thead>
<tr>
<th>Component</th>
<th>Biodegradation</th>
<th>Exposure time</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>70 %</td>
<td>&lt; 10 d</td>
<td>Readily biodegradable</td>
</tr>
<tr>
<td>Propylene glycol monobutyl ether</td>
<td>90 %</td>
<td>28 d</td>
<td>Readily biodegradable</td>
</tr>
</tbody>
</table>

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Component</th>
<th>Bioconcentration factor (BCF)</th>
<th>Partition Coefficient n-Octanol/water (log)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>1.57 - 1.97</td>
<td>2.8</td>
</tr>
<tr>
<td>Propylene glycol monobutyl ether</td>
<td>3.2 estimated</td>
<td>1.2</td>
</tr>
</tbody>
</table>

Mobility

<table>
<thead>
<tr>
<th>Component</th>
<th>End point</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Propylene glycol monobutyl ether</td>
<td>Koc</td>
<td>1.3 - 6</td>
</tr>
</tbody>
</table>

PBT and vPvB assessment

<table>
<thead>
<tr>
<th>Component</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane</td>
<td>Not fulfilling PBT and vPvB criteria</td>
</tr>
<tr>
<td>Propylene glycol monobutyl ether</td>
<td>Not fulfilling PBT and vPvB criteria</td>
</tr>
</tbody>
</table>

Other adverse effects : None known.

13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle
14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

<table>
<thead>
<tr>
<th>UN number</th>
<th>Land transport</th>
<th>Sea transport</th>
<th>Air transport</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>AEROSOLS, Flammable, 2.1</td>
<td>AEROSOLS, Flammable, 2.1</td>
<td>AEROSOLS, Flammable, 2.1</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.1</td>
<td>2</td>
<td>2.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Limited quantities derogation may be applicable to this product, please check transport documents.</td>
<td>Limited quantities derogation may be applicable to this product, please check transport documents.</td>
<td>Limited quantities derogation may be applicable to this product, please check transport documents.</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

Notification status: All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Notification status: All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

California Prop. 65: This product is not subject to the reporting requirements under California’s Proposition 65.
16. OTHER INFORMATION

**HMIS Ratings**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>4</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

**NFPA Ratings**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Fire</td>
<td>4</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Special</td>
<td>-</td>
</tr>
</tbody>
</table>

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

**Further information**

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller’s control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

**Prepared by**

SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)