SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier

Product name: Amway Home™ Bathroom Cleaner Refill - Concentrated Bathroom Cleaner Refill

Other means of identification

Product code: 109861, 112546
Synonyms: AMWAY HOME™ L.O.C.™ Bathroom Cleaner
Legacy of Clean™ Bathroom Cleaner Refill - Concentrated Bathroom Cleaner Refill

Recommended use of the chemical and restrictions on use

Recommended use: Hard surface cleaner for bathrooms. Consumer use.
Uses advised against: Do not use on marble, natural stone or brass.

Details of the supplier of the safety data sheet

Product information
Amway Corp. (58C-2A) 7575 Fulton Street East
Ada, MI 49355 USA
Tel: 1-800-253-6500

Manufacturer
Access Business Group, LLC
7575 Fulton Street East
Ada, MI 49355 USA
Tel: 1-800-253-6500

E-mail address: sds@amway.com

Emergency telephone number

For Transportation
ChemTrec @ 1-800-424-9300

Emergencies:


2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation Category 2A

Label elements
Warning

Hazard statements:
Causes serious eye irritation

Precautionary Statements - Prevention
Wash hands thoroughly after handling

Precautionary Statements - Response

Eye
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

Hazard not otherwise classified (HNOC)
Not applicable

Other Information
* Not applicable

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-methoxy-glycol ether</td>
<td>Glycol ether</td>
<td>107-98-2</td>
<td>1-5</td>
<td>*</td>
</tr>
<tr>
<td>1,2,3-Propanetricarboxylic acid, 2-hydroxy-</td>
<td>Organic acid</td>
<td>77-92-9</td>
<td>1-5</td>
<td>*</td>
</tr>
<tr>
<td>Alcohols, C9-11, ethoxylated</td>
<td>Surfactant</td>
<td>68439-46-3</td>
<td>1-5</td>
<td>*</td>
</tr>
<tr>
<td>Amides, coco, N-[3-(dimethylamino)propyl], N-oxides</td>
<td>Surfactant</td>
<td>68155-09-9</td>
<td>&lt;1</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

Eye contact:
Remove contact lenses. Rinse with gentle stream of water for 15 minutes, holding eyelids open. Get medical advice by calling a poison control center, doctor or hospital emergency room.

Skin contact:
Rinse skin thoroughly with water. Call a physician if irritation persists

Inhalation:
Move to fresh air. If irritation or breathing difficulty develops, GET MEDICAL ADVICE by calling a poison control center, doctor or hospital emergency room.

Ingestion:
If victim is a child, give 4-8 ounces of water. For adults, give 8-12 ounces of water. Do not induce vomiting when this product is swallowed. If vomiting occurs spontaneously, keep victim in an upright position. GET MEDICAL ADVICE by calling a poison control center, doctor or hospital emergency room.

Protection of first-aiders:
Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed
Symptoms: No information available.

**Indication of any immediate medical attention and special treatment needed**

*Notes to physician:* Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

**Suitable extinguishing media:**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:**
No information available.

**Specific hazards arising from the chemical**

No special exposure hazards are known.

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions:**
Wear appropriate personal protection equipment (respirator, gloves, goggles, and/or faceshield, boots, protective clothing).

**For emergency responders:**
Use personal protective equipment as required.

**Environmental precautions**

See Section 12 for additional Ecological Information. Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

**Methods for containment:**
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**Methods for cleaning up:**
Collect spillage. Dispose of in accordance with all national and local regulations.

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling:**
Avoid contact with eyes. Wash hands thoroughly after handling.

**General hygiene considerations:**
Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Keep out of the reach of children.
Materials to avoid
Contact with highly reactive chemicals like strong acids, strong bases, oxidizers or reducing agents may cause a dangerous reaction.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TWA</th>
<th>ACGIH STEL</th>
<th>ACGIH CEILING</th>
<th>ACGIH - Skin Absorption Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-methoxy-107-98-2</td>
<td>50 ppm</td>
<td>150 ppm</td>
<td>100 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL):
No information available.

Predicted No Effect Concentration (PNEC):
No information available.

Appropriate engineering controls

Engineering measures:
Mechanical ventilation is not normally necessary when this product is used according to product label directions.

Individual protection measures, such as personal protective equipment

Eye/face protection:
Follow label directions. No special technical protective measures are necessary. Avoid contact with eyes. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures.

Hand protection:
Follow label directions. Skin protection is not normally necessary when this product is used according to product label directions. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures.

Skin and body protection:
Follow label directions. Skin and body protection is not normally necessary when this product is used according to product label directions. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures.

Respiratory protection:
Follow label directions. Respiratory protective equipment is not normally necessary when this product is used according to product label directions. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures.

General industrial hygiene practice:
This product is sold as a consumer product. Where use conditions and/or extent and duration of exposure differ from typical household consumer use, appropriate protective equipment may be necessary to minimize exposures. Handle in accordance with good industrial hygiene and safety practice.
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value(s)</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td>No information available</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
<td>No information available</td>
</tr>
<tr>
<td>Color</td>
<td>Yellow</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor</td>
<td>Citrus</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>2.1 - 2.7</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 94 °C / &gt; 200 °F</td>
<td>Setaflash Closed Cup Tester</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability limit in air:</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.005 - 1.025</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
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<td>No information available</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Softening point</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>VOC content (%)</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Density</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Bulk density</td>
<td></td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stability:
Stable under normal conditions.

Sensitivity to mechanical impact:
None.

Sensitivity to static discharge:
None.

Possibility of hazardous reactions
Contact with highly reactive chemicals like strong acids, strong bases, oxidizers or reducing agents may cause a dangerous reaction.
**Conditions to avoid**

Keep out of reach of children.

**Incompatible materials:**

Not determined.

**Hazardous decomposition products**

Not determined.

### 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Aggravated medical conditions:** Exposure to this product may aggravate pre-existing skin, eye, and respiratory disorders.

**Principle routes of exposure:** Eye contact, skin contact, inhalation

- **Inhalation:** Inhalation of vapors or mists may cause irritation of the upper respiratory tract. See additional information below.
- **Eye contact:** Moderately irritating to the eyes.
- **Skin contact:** Patch test on human volunteers did not demonstrate sensitization properties. Prolonged contact may cause redness and irritation.
- **Ingestion:** Ingestion of this product can cause irritation of the mouth and throat, upset stomach, nausea, vomiting and diarrhea.

**Further information:** Inhalation of vapors or skin contact with 1-methoxy-2-propanol can cause respiratory tract irritation, headache, nausea, dizziness and drowsiness. Liver and kidney effects have been noted in experimental animals.

### Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-methoxy-107-98-2</td>
<td>= 5000 mg/kg (Rat)</td>
<td>= 13 g/kg (Rabbit)</td>
<td>&gt; 7559 ppm (Rat) 6 h</td>
</tr>
<tr>
<td>1,2,3-Propanetricarboxylic acid, 2-hydroxy-77-92-9</td>
<td>= 3 g/kg (Rat) = 3000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Alcohols, C9-11, ethoxylated 68439-46-3</td>
<td>= 1378 mg/kg (Rat) = 1400 mg/kg (Rat)</td>
<td>&gt; 2 g/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

**Information on toxicological effects**

**Symptoms:** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

- **Skin corrosion/irritation:** Prolonged contact may cause redness and irritation.
- **Serious eye damage/eye irritation:** Moderate eye irritation.
- **Sensitization:** Patch test on human volunteers did not demonstrate sensitization properties.
- **Germ cell mutagenicity:** None known.
- **Carcinogenicity:** None known

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC (International Agency for Research on Cancer)</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
</table>
2-Propanol, 1-methoxy-107-98-2 | A4 - Not Classifiable as a Human Carcinogen | - | - | -

**Legend**

ACGIH (American Conference of Governmental Industrial Hygienists)  A4 - Not Classifiable as a Human Carcinogen  
IARC (International Agency for Research on Cancer)  
NTP (National Toxicology Program)  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

**Reproductive toxicity:** This product does not contain any known or suspected reproductive hazards.

**STOT - single exposure:** No known effects under normal use conditions.

**STOT - repeated exposure:** No known effects under normal use conditions.

**Aspiration hazard:** No hazard from product as supplied.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-methoxy-107-98-2</td>
<td>-</td>
<td>4600 - 10000: 96 h Leuciscus idus mg/L LC50 static 20.8: 96 h Pimephales promelas g/L LC50 static</td>
<td>23300: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>1,2,3-Propanetricarboxylic acid, 2-hydroxy-77-92-9</td>
<td>-</td>
<td>1516: 96 h Lepomis macrochirus mg/L LC50 static</td>
<td>120: 72 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

### Persistence and degradability

Readily biodegradable.

### Bioaccumulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-methoxy-107-98-2</td>
<td>-0.437</td>
</tr>
<tr>
<td>1,2,3-Propanetricarboxylic acid, 2-hydroxy-77-92-9</td>
<td>-1.72</td>
</tr>
</tbody>
</table>

### Mobility in soil

No information available.

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Disposal of wastes**  
Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging:**  
Dispose of in accordance with federal, state and local regulations.
14. TRANSPORT INFORMATION

This product has been tested against the UN protocol used to classify transportation hazards and it does not meet the definition of a dangerous good in transport.

**DOT:**
- UN/ID No.: Not regulated
- Proper shipping name: Not regulated
- Hazard class: Not regulated
- Packing group: Not applicable

**IMDG/ADR:**
- UN/ID No.: Not regulated
- Proper shipping name: Not regulated
- Hazard class: Not regulated
- Packing group: Not applicable
- Marine pollutant: Not applicable

**ICAO/IATA:**
- UN/ID No.: Not regulated
- Proper shipping name: Not regulated
- Hazard class: Not regulated
- Packing group: Not applicable
- Marine pollutant: Not applicable

The information contained in this document is subject to change or update due to changing government regulations. The user of this document assumes responsibility for complying with all applicable national and international laws and regulations regarding the shipment of Dangerous Goods.

15. REGULATORY INFORMATION

**EPA RCRA Hazardous Waste Classification:** Not applicable

16. OTHER INFORMATION

**Key or legend to abbreviations and acronyms used in the safety data sheet**
- TWA - TWA (Time-Weighted Average)
- STEL - STEL (Short Term Exposure Limit)
- ACGIH (American Conference of Governmental Industrial Hygienists)
- EPA (Environmental Protection Agency)
- RCRA (Resource Conservation and Recovery Act)

**SECTION 11: TOXICOLOGICAL INFORMATION**
- Rat - Rat
- Rabbit - Rabbit
- Guinea Pig - Guinea Pig
The information contained herein is believed to be accurate and represents the best information currently available to us, much of which comes from the manufacturer or supplier of components of this product. Therefore, Access Business Group LLC makes no warranty, express or implied, regarding the accuracy of the data. Health and safety precautions in this data sheet may not be adequate for all individuals and product uses. It is the user's obligation to make certain that this SDS is the most current SDS for the product; to evaluate the information contained in this sheet in connection with the uses to which the product is to be put in the workplace and to use the product safely in accordance with applicable laws and regulations. Access Business Group LLC assumes no responsibility for injury from the use of the product described in this sheet in a way different from that provided in the label directions.

Prepared by: Access Business Group LLC, Environmental, Health and Safety Department, Ada, Michigan, U.S.A.

This data sheet contains changes from the previous version in section(s): None

***END OF SAFETY DATA SHEET***