



SAFETY DATA SHEET



1. IDENTIFICATION

Product identifier

Product name: Legacy of Clean™ Bathroom Cleaner Refill - Concentrated Bathroom Cleaner Refill

Other means of identification

Product code: 109861, 112546

Synonyms: AMWAY HOME™ L.O.C.™ Bathroom Cleaner

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 Canada Corporation
375 Exeter Road
London, Ontario N5Y 5V6
Information #: 1-800-265-5470

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 Emergencies: ChemTrec @ 1-800-424-9300

Emergency Telephone Number: For Poisoning Emergencies call Amway's poison control service in the United States at 1-616-787-6307. This is a 24-hour number.

2. HAZARD 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

Eyes

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

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

- Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS #	Weight %
2-Propanol, 1-methoxy-	Glycol ether	107-98-2	1-5
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	Organic acid	77-92-9	1-5
Alcohols, C9-11, ethoxylated	Surfactant	68439-46-3	1-5
Amides, coco, N-[3-(dimethylamino)propyl], N-oxides	Surfactant	68155-09-9	<1

Percentages are expressed as a ratio of the weight of the ingredient to the weight of the controlled product (lbs.)

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 doctor if irritation persists
- Inhalation:** Move to fresh air. If irritation or breathing difficulty develops, GET MEDICAL ADVICE by calling an anti-poison center, doctor or hospital emergency room.
- Ingestion:** If victim is a child, give 120-240 millilitres of water. For adults, give 240-360 millilitres 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 an anti-poison centre, 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. No special restrictions on storage with other products.

Incompatible materials:

Contact with highly reactive chemicals like strong acids, strong bases, oxidizers or reducing agents may cause a dangerous reaction.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits:

Chemical Name	Canada - Ontario - TWA	Canada - Ontario - STEL	Canada - Ontario - Ceiling Values	Canada - Ontario - Skin Notation
2-Propanol, 1-methoxy-	50 ppm	100 ppm		

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 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 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

Physical state:	Liquid	Odour:	Citrus
Appearance:	Clear	Odour threshold:	No information available
Colour:	Yellow		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH:	2.1 - 2.7	No information available	
Melting point/freezing point:		No information available	
Boiling point/boiling range:		No information available	
Flash point:	> 94 °C / > 200 °F	Setaflash Closed Cup Tester	
Evaporation rate:		No information available	
Flammability (solid, gas):		No information available	
Flammability limit in air:			
Upper flammability limit:			
Lower flammability limit:			
Vapour pressure:		No information available	
Vapour density:		No information available	
Specific Gravity:	1.005 - 1.025		
Water solubility:		No information available	
Solubility(ies):		No information available	
Partition coefficient		No information available	
Auto-ignition temperature:		No information available	
Decomposition temperature:		No information available	
Kinematic viscosity:		No information available	
Dynamic viscosity:			
Explosive properties:	No information available		
Oxidising properties:	No information available		
Softening point:	No information available		
Molecular weight:	No information available		
VOC content (%):	No information available		
Density:	No information available		
Bulk density:	No information available		

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 sensitisation 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 vapours 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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Propanol, 1-methoxy-107-98-2	= 5000 mg/kg (Rat)	= 13 g/kg (Rabbit)	> 6 mg/L (Rat) 4 h
1,2,3-Propanetricarboxylic acid, 2-hydroxy-77-92-9	= 3 g/kg (Rat) = 3000 mg/kg (Rat)	-	-
Alcohols, C9-11, ethoxylated 68439-46-3	= 1378 mg/kg (Rat) = 1400 mg/kg (Rat)	> 2 g/kg (Rabbit)	-

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.
- Sensitisation:** Patch test on human volunteers did not demonstrate sensitisation properties.
- Germ cell mutagenicity:** None known.
- Carcinogenicity:** None known

Chemical Name	ACGIH	IARC (International Agency for Research on Cancer)	NTP	OSHA
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

NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labour)

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

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

Persistence and degradability

Readily biodegradable.

Bioaccumulation

Chemical Name	Partition coefficient
2-Propanol, 1-methoxy- 107-98-2	-0.437
1,2,3-Propanetricarboxylic acid, 2-hydroxy- 77-92-9	-1.72

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: Only empty packaging can be recycled.

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 regulated

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 regulated
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

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

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)
WHMIS (Workplace Hazardous Materials Information System)

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.

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): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

*****END OF SAFETY DATA SHEET*****