



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 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 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. 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

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 %	Trade secret
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	*

*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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits:

Chemical Name	ACGIH TWA	ACGIH STEL	ACGIH CEILING	ACGIH - Skin Absorption Designation
2-Propanol, 1-methoxy-107-98-2	50 ppm	150 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 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

Physical state:	Liquid	Odor:	Citrus
Appearance:	Clear	Odor threshold:	No information available
Color:	Yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:	2.1 - 2.7	
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:		
Vapor pressure:		No information available
Vapor 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
Autoignition temperature:		No information available
Decomposition temperature:		No information available
Kinematic viscosity:		No information available
Dynamic viscosity:		
Explosive properties:	No information available	
Oxidizing 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 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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Propanol, 1-methoxy-107-98-2	= 5000 mg/kg (Rat)	= 13 g/kg (Rabbit)	> 7559 ppm (Rat) 6 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.

Sensitization: Patch test on human volunteers did not demonstrate sensitization 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-	A4 - Not Classifiable as	-	-	-

107-98-2	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

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Propanol, 1-methoxy- 107-98-2	-	4600 - 10000: 96 h Leuciscus idus mg/L LC50 static 20.8: 96 h Pimephales promelas g/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: 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)

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*****