

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	the works [®] Toilet Bowl Cleaner
Formula Number	1400117
UPC Numbers	74157-03302 (32 oz.), 74157-03305 (32 oz.), 74157-03310 (32 oz.), 74157-03317 (32 oz.), 74157-03377 (20oz.), 74157-04410 (32 oz.), 74157-04492 (32 oz.), 74157-08810 (30 oz.), 74157-08817 (20 oz.)
Manufacturer	Lime-O-Sol Company 101 S. Parker Dr. P.O Box 395 Ashley, Indiana 46705

**FOR HEALTH AND SAFETY-RELATED ISSUES OR CONCERNS, CALL
(24-HOUR HOTLINE)**

651-632-8958

For other non-emergency information, call (800) 448-5281

Date issued or last revised	March 25, 2003
Supersedes	February 27, 2003

Section 2. Hazardous Ingredients / Identity Information

Hazardous components	Weight %	CAS #	Exposure Limit(s)
Hydrogen Chloride	15 - 25 %	7647-01-0	OSHA Ceiling PEL - 5 ppm or 7 mg/m ³
(Hydrochloric Acid)			ACGIH Ceiling TLV - 5 ppm or 7 mg/m ³

Section 3. Hazards Identification

Do not mix with other household products. Use in a well-ventilated area.

Section 4. Physical / Chemical Data

Appearance	blue-green to green, clear, non-viscous liquid
Odor	chemical
Specific Gravity (@ 70°F)	1.1
Liquid Density (@ 70°F)	9.17 lb/gal
pH	< 1.0
Freezing Point	< -40 °F
Boiling Point	> 215 °F
Vapor Pressure	< 2 mm Hg
Vapor Density (Air = 1)	not known
Solubility in Water	complete
Evaporation Rate (butyl acetate =1)	> 1

Section 5. Fire and Explosion Data

Flash Point (TCC)	None detected
Autoignition Temperature	N/A
Flammable Limits	LEL - N/A, UEL - N/A
Extinguishing Media	Use appropriate extinguisher in surrounding area.
Special Fire Fighting Procedures	None
Unusual Fire and Explosion Hazards	Although not flammable, a latent fire or explosion hazard exists when product is in contact with certain metals, due to the separation of flammable hydrogen gas.

Section 6. Reactivity Data

Stability	<input type="checkbox"/> unstable <input checked="" type="checkbox"/> stable
Conditions to Avoid	Do not mix with other products or chemicals, avoid contact with metals or metallic surfaces.
Incompatibility (Materials to Avoid)	Avoid contact with corrosive materials and other cleaners. Contact with hypochlorites (bleaches), sulfides, or cyanides will release toxic gases.
Hazardous Decomposition / Products	Flammable hydrogen gas may be released on contact with certain metals.
Hazardous Polymerization	<input type="checkbox"/> may occur <input checked="" type="checkbox"/> will not occur

Section 7. First Aid Measures

INHALATION	Move to fresh air and insure breathing. Call physician immediately.
EYES	Immediately flush eyes with clean water. Remove contact lenses if applicable. Continue flushing for 15 minutes, holding eyelids open. Get immediate medical attention.
DERMAL / SKIN	Immediately flush affected area with water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder affected clothing and thoroughly clean contaminated shoes before wearing.
INGESTION	DO NOT induce vomiting. Immediately contact a physician. If conscious, give large amounts of water, followed with milk of magnesia, beaten eggs or vegetable oil. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing.

Section 8. Health Hazard Data

Acute Health Hazards	Skin and eye irritant (see section 7 for first aid measures)
Chronic Health Hazards	None known
Medical conditions generally aggravated by exposure	Pre-existing skin and eye disorders may be aggravated by exposure to this product.

Section 9. Precautions for Safe Handling and Use

Steps to be taken in case material is spilled or released	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. For large spills, dike for later disposal.
Waste disposal method	Dispose of according to local, state and federal regulations.
Precautions to be taken in handling and storage	Store bottle securely closed, in upright position. Follow label directions for use.
Other precautions	Avoid contact with eyes and skin, and avoid breathing vapors.

Section 10. Control Measures

Respiratory protection (will vary by use and conditions)	None required if used as directed. Avoid breathing vapors or mist.
Ventilation:	<u>Adequate</u>
Local	N/A
Mechanical	N/A
Special	N/A
Other	N/A
Protective Gloves	Rubber gloves recommended for prolonged use
Eye Protection	Safety glasses or goggles if used in large quantities
Work / Hygienic Practices	Avoid contact with skin and eyes

Section 11. Special Precautions

Special Labeling Information:

Hazard Ratings: 0 - Insignificant hazard
1 - Slight hazard
2 - Moderate hazard
3 - High hazard
4 - Very high hazard

HMIS Rating: Health 2

Flammability 0

Reactivity 0

NFPA Rating: Health 2

Flammability 0

Reactivity 0

NOTICES

This document has been prepared using data from sources considered scientifically and technically reliable. Actual conditions of use and handling of this product are beyond Seller's control. Seller shall not be responsible for the mishandling or misuse of the product, or treatment upon exposure. No statement contained herein constitutes a warranty, express or implied. User is responsible to evaluate all available information when using product for any particular use,

Due to different applicable laws and regulations, and different volumes of the chemicals/mixtures involved, the information contained herein may not match the label on the consumer product.

Various government agencies (i.e. Department of Transportation, Occupational Safety and Health Administration, Food and Drug Administration and others) may have specific regulations concerning the transportation, handling, storage or use of this product that may not be contained herein. The customer or user of this product should be familiar with these regulations.
