

SAFETY DATA SHEET

EMERALD GREEN

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

MANUFACTURER: Kleen Solutions, Inc.
1360 West Crowell Lane
Halsey, OR 97348

INFORMATION: (866) 77-KLEEN / (866) 775-5336

EMERGENCY PHONE: CHEMTREC: (800) 424-9300

PRODUCT NAME: Emerald Green

PRODUCT NUMBER:

DATE PREPARED: 05/08/2015

LAST REVISION: 06/28/2015

Uses: Pot/Pan Detergent
Use Restrictions: None known

PURE: **LIQUID:**
MIXTURE: **SOLID:**

2. HAZARDOUS IDENTIFICATION:

EMERGENCY OVERVIEW: Irritating

GHS CLASSIFICATION: Skin: (Category 2) Eyes: (Category 2a) Acute Toxicity Oral: (Category 5)

GHS Label elements, including precautionary statements

SIGNAL WORD: **Warning** **PICTOGRAM:**

HAZARD STATEMENT(S):

H303: May be harmful if swallowed
H315: Causes skin irritation
H319: Causes serious eye irritation
H332: May Be Harmful if inhaled



PRECAUTIONARY STATEMENT(S):

P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 +P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
P337+P313: IF eye irritation persists: Get medical advice/attention.

POTENTIAL HEALTH EFFECTS

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EYE CONTACT: Can cause severe eye irritation or damage

INHALATION: Can damage nasal and respiratory passages

INGESTION: Swallowing this product can be irritation and may cause damage to the gastrointestinal tract

SKIN CONTACT: Vapors, liquid and mists are irritants to the skin. Prolonged contact may cause reddening.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation, pain, coughing, redness of skin.

PHYSICAL HAZARD: No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name	CAS #	Range %
DODECYLBENZENE SULFONIC ACID	248-289-4	15 – 20%
Sodium Lauryl Ether Sulfate	68585-34-2	1 – 6%
Ethyl Alcohol	64-17-5	1 – 3%
2,2'-iminodiethanol	111-42-2	1 – 3%
SODIUM HYDROXIDE	1310-73-2	1 – 3%
Balance of formula contains water and proprietary ingredients		

4. FIRST AID MEASURES:

GENERAL ADVICE: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Hold eyelids open while flushing the eyes.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

INGESTION: If swallowed, do NOT induce vomiting. Give victim lots of water or milk. Get medical attention immediately. Never give anything by mouth to an unconscious or convulsing person.

SKIN CONTACT: Wash with soap and water. Change contaminated clothing. Get medical attention if irritation develops or persists.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing eye, skin or respiratory conditions.

SUPPLEMENTAL HEALTH INFORMATION: The effects of long-term, low-level exposure to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known. **COMBUSTION PRODUCTS:** None known.

6. ACCIDENTAL RELEASE MEASURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Do not walk through any spills without wearing proper safety attire. High risk of slipping due to leakage/spillage of product. Small spills: Mop up, wipe up or soak up immediately. Large spills: Evacuate area. Contain liquid; transfer to closed poly containers. Or soak up with inert material and shovel into poly drums for disposal.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Protect from freezing. Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet. Wear personal protection as required per safety program. Follow all SDS/label precautions even after container is emptied because it may retain product residues.

OTHER PRECAUTIONS: For industrial and institutional use only. Keep away from children. Keep containers closed while not in use.

8. EXPOSURE CONTROL/PERSONAL PROTECTION:

EXPOSURE CONTROLS:

Chemical Name	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
ETHYL ALCOHOL	1000ppm	n/a	1000ppm	n/a/
SODIUM HYDROXIDE	2mg/m3	n/a	2mg/m3	n/a
Contains no additional substances with occupational exposure limit values.				

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA approved respirator appropriate for vapor concentration at point of use.

VENTILATION: Local exhaust sufficient to keep exposure below TLV.

WORK/HYGENIC PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

EYE PROTECTION: Use chemical safety goggles when splashing is possible.

PROTECTIVE GLOVES: Not normally required. If necessary, refer to U.S. OSHA 29 CFR 1910.138

OTHER PROTECTIVE EQUIP: Boots, apron, lab coat or coveralls of impervious material, as appropriate to avoid skin contact.

ENGINEERING CONTROLS: No data available

9. PHYSICAL AND CHEMICAL PROPERTIES:

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

a) Appearance: Green Liquid	k) Vapor pressure (mm/hg): No data available
b) Odor: Slight Odor	l) Vapor density (Air = 1): > 1
d) pH: < 11.5	m) Relative density (Specific Gravity): > 1
e) Melting point/freezing point: No data available	n) Water solubility: Complete
f) Initial boiling point and boiling range: (100°C) 212°F	p) Auto-ignition temperature: n/a
g) Flash point: n/a Method Used: n/a	r) Viscosity: No data available
h) Evaporation rate: < 1	-) Pounds Per Gallon: n/a
j) Upper/lower flammability or explosive limits: UEL: n/a LEL: n/a	OTHER: No other data is available for this product. . . .

10. STABILITY AND REACTIVITY

STABLE: Stable under all conditions of use and storage

INCOMPATIBILITY: Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of Carbon

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: Contact with incompatible materials.

11. TOXICOLOGICAL INFORMATION:

None of the components of this product are listed as carcinogens. [CAS# 1310-73-2 Oral LD50 4090mg/kg Rat.] - [CAS# 1310-73-2 Oral LD50 6600mg/kg Mouse.] No other data available.

12. ECOLOGICAL INFORMATION:

Keep out of waterways

13. DISPOSAL CONSIDERATIONS:

Dilute with large amounts of water and dispose to municipal or industrial waste treatment facility in accordance with applicable regulations.

14. TRANSPORT INFORMATION:

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	-	Non-Regulated Material, Liquid	- -	--

15. REGULATORY INFORMATION:

No data available

16. OTHER INFORMATION:

HMS INFORMATION: HEALTH: 1 FLAMMABILITY: 0 PHYSICAL HAZARD: 0 PROTECTIVE: B
NFPA INFORMATION: TOXICITY: 1 FIRE: 0 REACTIVITY: 0 SPECIAL: N

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