
**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL
CHEMTREC - DAY OR NIGHT 1-800-424-9300**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KleenUp ® Pro

Synonyms and Chemical name: Isopropylamine salt of glyphosate

EPA Reg. No.: 524-445-65783

Company ID: United Horticultural Supply
419 18th Street
Greeley, CO 80631

Phone #s: Emergency Phone Number: **CHEMTREC 1-800-424-9300**
Medical Emergency Phone Number: **1-800-228-5635 extension 136**

Revisions: New product

MSDS Number: 000514445

Date: 09/04/01

Supersedes: New

2. COMPOSITION INFORMATION ON INGREDIENTS

		Percent by
		Weight
Chemical Ingredients:	Active Ingredient: Isopropylamine salt of glyphosate (CAS: 38641-94-0)	41
	Inert Ingredients: Surfactant (CAS: 61791-26-2)	8
	Water (CAS: 7732-18-5)	51

See section 8 for Personal Protective Equipment (PPE)

3. HAZARDS IDENTIFICATION

Emergency Overview: *This formulation causes substantial but temporary eye injury. It may be harmful if swallowed or inhaled. Keep out of reach of children. The most likely routes of exposure is skin contact and eye contact.*

Appearance & Odor: *This formulation is a yellow-amber liquid with a slight odor.*

Warning Statements: Avoid strong bases that can react to liberate heat. Reacts with galvanized steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

Potential Adverse Health Effects: Short-term ingestion effects can be irritation to the gastro-intestinal tract, nausea, vomiting or diarrhea. Product may impact by decreasing blood pressure and an increase fluid in lungs. Prolonged overexposure to this product may cause pneumonitis, abnormal heart rhythm and possible systemic problems

Likely routes of Exposure: Dermal and Inhalation

Dermal Contact: This formulation may be harmful if absorbed through the skin. Be sure to wear the proper protective equipment (PPE), see section 8.

Eye Contact: This formulation is corrosive and can cause irreversible eye damage, wear proper PPE, see section 8.

Inhalation Contact: Avoid inhaling vapors or mists. May irritate the respiratory tract, wear proper PPE, see section 8.

Ingestion: Harmful if swallowed, see section 4 for first aid.

Potential Health Effects: The effects are nonspecific: muscle weakness, lethargy, loss of appetite, abdominal pains, headache or

shortness of breath.

4. FIRST AID MEASURES

If on Skin: Remove all contaminated clothing. Wash skin, hair and fingernails thoroughly with soap and water. If irritation persists seek medical attention. Wash clothing before reuse.

If Inhaled: Remove to fresh air. If breathing is difficult, please administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

If Swallowed: Drink 1 to 2 glasses of water. Call a physician to get medical attention, the emergency telephone number is 1-800-228-5635 extension 136.

If in eyes: Flush with running water for at least 15 minutes while holding open eyelids to help flush out material. If irritation persists, seek medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: Does not flash **Flammable Limits:** None established

Fire Extinguishing Media: Water, dry chemical, carbon dioxide, or foam if available.

Special Fire Fighting Procedures: May produce toxic and noxious fumes under extreme fire conditions. Wear self-contained breathing apparatus and acid resistant protective clothing.

Fire or Explosion Hazards: Carbon monoxide, nitrogen oxides and phosphorus oxides.
See section 15 for NFPA ratings.

6. ACCIDENTAL RELEASE MEASURES

Release or Spill: Wear PPE outlined in section 8. Contain spill, absorb with clay or other absorbent material; sweep up material and place in container for possible land application according to label use or for proper disposal. The product has a low environmental hazard. Check local, state and federal regulations for proper disposal.

7. HANDLING AND STORAGE

Avoid contact with skin and eyes. Wear PPE outlined in section 8. Wash hands thoroughly after handling or contact and do not eat, drink or smoke until you wash your hands.

Always use original container or compatible containers (stainless steel, aluminum, plastic, fiberglass, glass lined tanks) to store pesticides and herbicides in a secured warehouse or storage building. Incompatible for storage with galvanized steel, unlined mild steel, see section 10.

Keep out of reach of children, away from food, drink and animal feed.

See Section 8 for PPE.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: have eye wash facilities immediately available at locations where eye contact can occur.

Eye Protection: Chemical goggles.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: Respiratory protection is not normally required.

Ventilation: Not normally required. Work in well-ventilated areas. If vapors exceed the acceptable levels, Wear MSHA/NIOSH approved respirator with cartridges for pesticide vapors.

9. Physical and Chemical Properties

Appearance: Dark yellow -amber liquid

Odor: Slight odor

Solubility: Soluble in water

Specific gravity (water= 1): 1.1655

pH: 4.4-5.0 (acid)

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable **Conditions to Avoid:** Reacts with bases to liberate heat. Excessive cold temperatures

Incompatibility with Other Materials: Strong bases

Hazardous Decomposition Products: Oxides of nitrogen, phosphorus and carbon formed from combustion.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD50 (rat) > 5000 mg/kg **Acute Dermal LD 50 (rabbit)** > 5000 mg/kg

Acute Inhalation LC50 (rat) >2.6 mg/L(No mortality)

Eye Irritation: Substantial but temporary eye injury

Inhalation Irritation: Harmful if inhaled

T The target organs/systems are the eyes, respiratory, and gastro-intestinal.

12. ECOLOGICAL INFORMATION

Environmental Fate: Drift or runoff may adversely affect non-target plants.

Avian toxicity: Bobwhite quail LC50> 5,620 mg/kg Mallard duck LC50> 5,620 mg/kg

Arthropod toxicity: Honey bee LD50 > 100µg/bee (practically non-toxic)

Soil organism toxicity: Earthworm > 5,000 mg/kg

Bioaccumulation: No significant bioaccumulation is expected.

Dissipation: Adsorbs strongly to soil

Biodegradation: Inherently biodegradable

13. DISPOSAL CONSIDERATIONS

Product Disposal: Dispose of as hazardous industrial waste, Follow all local/regional/national regulations for disposal. Do not reuse containers..

Container Disposal: Triple rinse (or equivalent) or equivalent, adding rinsate to spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

14. TRANSPORT INFORMATION

Follow the precautions indicated in the Handling and Storage Section, Section 7 of this MSDS.

DOT Proper Shipping Name: Not regulated by US DOT highway.

U.S. Surface Freight Classification: Compound, Tree or Weed Killing, NOI (NMFC 50320, SUB 2:Class: 60)

MATERIAL SAFETY DATA SHEET

KleenUp O Pro

15. REGULATORY INFORMATION

SARA Hazard Notification/Reporting

SARA Title III, Section 313 None

NFPA & HMIS Hazard Ratings:

NFPA

HMIS

1 Health
0 Flammability
0 Reactivity

0 Least
1 Slight
2 Moderate
3 High

1 Health
0 Flammability
0 Reactivity
D PPE

SARA Title III Hazard Category:

Immediate Y

Delayed N

Fire N

Reactive N

Sudden Release of Pressure N

Reportable Quantity (RQ) under U.S. CERCLA: None

16. OTHER

Prepared by: Dennis Belau

Approved by: Environmentally/ Regulatory Services

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