



TUMBLEWEED



Non-Selective Herbicide Concentrate For Weeds, Grasses and Unwanted Plant Growth

DESCRIPTION

Tumbleweed is a non-selective, general use, contact herbicide that will effectively kill weeds, grass and unwanted plants when applied to the foliage and to the roots. Tumbleweed is based on naturally derived citric acid, an active ingredient, identified in the Code of Federal Regulations as a Minimum Risk Pesticide*. It also contains vinegar, an inert ingredient, identified by the EPA as being of minimal concern. Due to its minimum risk pesticide status, Tumbleweed is ideal for use outside public buildings, schools, child care centers, pet care facilities, as well as zoos, entertainment parks, and public areas.

*For more information on Minimum Risk Pesticides, please refer to the following EPA website: www.epa.gov/oppbppd1/biopesticides/regtools/25b_list.htm

BENEFITS:

- Minimum Risk Pesticide
- Effective on a broad range of vegetation
- Readily biodegradable
- Low toxicity
- Environmentally compatible
- Easy to apply
- Safe for weed control use around vegetable gardens

HOW TO USE

Tumbleweed, when diluted to the proper use level, is designed to work best by thoroughly spraying emerging weeds & unwanted grasses in the spring. For optimal effectiveness, spray the diluted product directly on the leaves & stems and around the roots on a day that is dry, warm and sunny. For more mature, heavier growth, a higher concentration of product may be required. For proper dilution levels, see below.

- Light growth: mix 1 part of Tumbleweed with 3 parts water.
- Heavy growth: mix 1 part of Tumbleweed with 1 part of water.

Apply to foliage and soil around the root system according to the label instructions on the product container.

IMPORTANT: See product label for application cautions around desirable plants.

Please check with the appropriate state pesticide regulatory authority to determine if applicator certification is required.



SPECIFICATIONS

APPEARANCE.....	Clear liquid
ODOR.....	Vinegar
ACTIVE (Citric Acid).....	20%
pH (+/-0.5).....	2.0
SPECIFIC GRAVITY(+/-0.01).....	1.09
DENSITY (lbs/gal).....	9.1
FLASH POINT.....	> 200°F
STABILITY.....	One year min
CODE (CONC.).....	TUM

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

SECTION 1 - PRODUCT IDENTIFICATION

Trade Name TUMBLEWEED Product Type Weed & Grass Herbicide Concentrate & RTU

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT(optional)	TLV(Source)
Citric Acid	77-92-9		Not Established
Vinegar (as Acetic acid)	64-19-7		Not Established

Other ingredients in this product are : Less than 1% by weight or less than 0.1% for carcinogens Not hazardous Declared to be Trade Secret

SECTION 3 - PHYSICAL DATA

Boiling point(°F.) Near 212 Specific Gravity(H₂O=1.0) (± 0.005) 1.09 & 1.05 pH (± 0.5) 2.0

Vapor Pressure(mm Hg) Unknown Vapor Density(Air=1) Unknown

Solubility in water Complete Insoluble Emulsifiable (or Dispersible) Slight (or Partial)

Evaporation Rate(vs. H₂O) Faster Slower About the Same

Appearance and Odor Clear liquid with vinegar odor

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point(T.C.C.) >200 °F. None to Boiling Flammable Limits Upper Unknown Lower Unknown

Extinguishing Media CO₂, dry chemical, foam, water spray.

Special Firefighting Procedures Do not enter confined fire-spaces without protective clothing and self-contained air supply.

Unusual Fire and Explosion Hazards None known.

SECTION 5 - REACTIVITY DATA

Stability Stable Incompatibility Strong oxidizers

Hazardous Decomposition Products Carbon monoxide and other unidentified organic gases may occur during incomplete combustion.

SECTION 6 - HEALTH HAZARDS

Primary Routes of Exposure Eye Skin Oral Inhalation Other

Signs and Symptoms of Overexposure (Acute) Prolonged or repeated contact of concentrated product with eyes will cause irritation and reddening. May cause skin irritation with certain individuals. Ingestion of this product may cause exposed person to vomit and may result in some diarrhea.

Signs and Symptoms of Overexposure(Chronic) None known

Medical Conditions Aggravated by Overexposure None known Carcinogen/Suspect Carcinogen Ingredients NTP OSHA IARC NONE

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

Eyes Flush immediately with water for at least 15 minutes. If persistent irritation occurs, call a physician.

Skin Not applicable

Ingestion Drink large quantities of milk or water. Call a physician.

Inhalation Not applicable

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection Not needed under normal conditions of use.

Ventilation Requirements Local Exhaust Mechanical Room Ventilation Is Adequate

Protective Gloves Not required. Eye Protection Safety glasses Other Protective Clothing Not required for normal use

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken if Released or Spilled Dilute with much water and flush to drain.

Waste Disposal Methods Dispose of in accordance with applicable Federal, State and Local ordinances.

SECTION 10 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage Do not get in eyes.

The health hazards given on the Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of over exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure to the product, under normal conditions of use.