

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be consulted
for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label)

Bonide KleenUp Grass & Weed Killer R-T-U

ID # 71995274

Date: January 16, 2002

Section I

Bonide Products, Inc.
6301 Sutliff Road
Oriskany, NY 13424

(315) 736-8231

Section II - Hazardous Ingredients/Identity

| Hazardous Components (Specific Chemical Identity: Common Name(s)) | OSHA PEL | ACGIH | TLV | Other Limits | % (Optional) |
|---|----------|-------|-----|--------------|--------------|
| Glyphosate CAS#38641-94-0 | | | | | 1.92% |

Section III - Physical Information

| | |
|---|---|
| APPEARANCE AND ODOR: Yellow or off-whiteliquid | SOLUBILITY (water): soluble |
| BOILING POINT: No data available | SPECIFIC GRAVITY (water=1): No data available |
| BULK DENSITY: 8.338 lb./gal. | VAPOR DENSITY (air=1): No data available |
| EVAPORATION RATE (Butyl Acetate =1): Not determined | VAPOR PRESSURE: Not determined |
| PERCENT VOLATILE (By Volume): Not determined | pH: 7-8 |

Section IV - Fire and Explosion Hazard Information

FLASH POINT (Specify Method - C): >212F, TAG CC Aqueous Water Base FIRE EXTINGUISHING MEDIA: Water spray, dry chemical. FLAMMABLE LIMITS (Percent by Volume): No data available carbon dioxide. FIRE FIGHTING INSTRUCTIONS: This material will not burn. Smoke from fires involving this material may present unusual hazards. Avoid breathing smoke and mists. Avoid contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Read the entire document.

NFPA HAZARD RATING: [0 Least, 1 Slight, 2 Moderate, 3 High, 4 Severe]

1 Health 0 Flammability

0 Reactivity

Section V - Reactivity Information

STABILITY: Stable

CONDITIONS TO AVOID: Prolong storage at temperatures above 100 degrees will lead to non-hazardous decomposition.

INCOMPATIBILITY (Avoid contact with): May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

Section VI - Health Hazard Information

EYES: Moderate irritation with reversible corneal injury.

SKIN : Mild to slight irritation at 72 hours. (No irritation or slight erythema) The Draze Skin Primary Irritation Score (range 0-8) for a 4 hour exposure (rabbits) is 0.

TOXICOLOGICAL INFORMATION: Oral LD50: >5,000mg/kg.

Dermal LD50: > 5,000 mg/kg (EPA FIFRA Toxicity category IV)

IMMEDIATE CONCERNS: AVOID CONTACT WITH EYES:

KEEP OUT OF REACH OF CHILDREN

EYE: This substance is slightly irritating to the eyes. Eye contact may include discomfort, tearing, swelling, redness, and blurred vision.

SKIN: This substance is not expected to cause significant or prolonged skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

INGESTION: If swallowed, this product may cause gastrointestinal tract irritation.

INHALATION: If inhaled, this substance is considered practically non-toxic to internal organs.

FIRST AID MEASURES:

EYES: Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. No additional first aid should be necessary. However, if irritation persists, see a doctor.

SKIN: No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove contaminated clothing.

INGESTION: If swallowed, immediately telephone a poison control center, emergency treatment center or a physician for advice. **DO NOT** make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then immediately take person and product container with label to an emergency treatment center.

INHALATION: If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

ECOTOXICOLOGICAL INFORMATION: This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

Studies performed with a concentrated solution of the isopropylamine salt of glyphosate indicate the following:

MON 0139 Technical (62%)

48-hr LC50 Daphnia: 930 mg/L. Practically Nontoxic 96-hr LC50 Bluegill: >1,000 mg/L. Practically Nontoxic

96-hr LC50 Trout: >1,000 mg/L. Practically Nontoxic 96-hr LC50 Carp: >10,000 ppm. Practically Nontoxic

Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled:

SMALL SPILL: Soak up spilled material with paper towels and discard in trash.

LARGE SPILL: Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgite, bentonite or other absorbent clays. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section VII. Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water. For liquid spills that soak into the ground, contact the applicable Federal, State and or County Health Dept. for disposal recommendations. If disposal is required then refer to Section VII for instructions. Leaking containers should be separated from non-leaking and either the container or its contents transferred to a drum or other non-leaking container and disposed of in accordance with instructions provided under Section VII. Any recovered spilled liquid should be similarly collected and disposed of. Do not contaminate water, foodstuffs, or feed by storage or disposal.

WASTE DISPOSAL METHOD:

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State, or local procedures.

PRODUCT DISPOSAL: It is recommended that all of the product be used up, carefully following all label directions and precautions. If necessary to dispose of partially filled product container, then securely wrap it in several layers of newspaper and discard in trash.

EMPTY CONTAINER: Do not reuse container. Rinse thoroughly before discarding in trash.

Section VIII - Special Protection Information

PERSONAL PROTECTION:

EYES AND FACE: For application of product in accordance with label instructions, no special eye protection is needed. Handling of the product is not likely to present an eye exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which could cause eye contact, workers should wear goggles or a face shield. **SKIN:** No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing

protective clothing. Wash thoroughly with soap and water after handling.

RESPIRATORY: Handling of this product is not likely to present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy mist, workers should put on respiratory protection equipment. Consult respirator manufacturer to determine appropriate type of equipment. Observe respirator use limitations specified by NIOSH MSHA or the manufacturer. For application of product in accordance with label instructions, no special respiratory protection is required.

ENGINEERING CONTROLS: No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed.

Section IX - Special Precautions

HANDLING AND STORAGE: GENERAL PROCEDURES: Keep pesticide in original container. Store in a secure, preferably locked, storage area. Protect container from freezing. **STORAGE TEMPERATURE:** Do not store below 32 degrees Fahrenheit.

Section X - Regulatory Information

SARA TITLE III HAZARD CATEGORY:

IMMEDIATE: Yes **FIRE:** No **DELAYED:** No **REACTIVE:** No

SUDDEN RELEASE OF PRESSURE: No

SUBSTANCES REGULATED UNDER SARA, TITLE III, SEC. 313: None

D.O.T: Not regulated

KEEP OUT OF REACH OF CHILDREN

ABBREVIATION KEY

N/A: NOT AVAILABLE OR APPLICABLE

N/E: NOT ESTABLISHED

TLV: THRESHOLD LIMIT VALUE

TWA: TIME WEIGHTED AVG./8 HOUR WORKDAY

STEL: SHORT TERM EXPOSURE LIMIT

D.O.T.: DEPARTMENT OF TRANSPORTATION

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.