

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 Weed & Grass Killer 41% Super Conc.

ID # 4484

Date: September 4, 2011

Section I- Product & Company Information

Manufacturer:

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

(800) 424-9300 (Chemtrec)
(315) 736-8231

Section II – Hazardous Identification

Hazardous Components (Specific Chemical Identity: Common Name(s)	OSHA PEL	ACGIH	TLV	Other Limits	% (Optional)
Isopropylamine salt of glyphosate CAS#38641-94-0					41.0%

Airborne limit - No specific occupational exposure limits have been established.

EMERGENCY OVERVIEW WARNING! Causes substantial but temporary eye injury - Harmful if inhaled Single ingestion – Causes gastrointestinal tract irritation. **KEEP OUT OF REACH OF CHILDREN**

Section III – First Aid

EYES: Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses after 5 minutes if worn, and then continue flushing. Note: No cases of irreversible eye effects could be attributed to glyphosate formulation in an extensive epidemiological survey or reported accidental eye contact with these formulations.

SKIN: Remove contaminated clothing and jewelry. Wash skin thoroughly with soap and water for 15 minutes.

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. Immediately offer water to drink.

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

NOTE TO PHYSICIANS: This product is not a cholinesterase inhibitor.

ANTIDOTE: Treatment with atropine and oximes is not indicated.

Section IV - Fire and Explosion Hazard Information

FLASH POINT: Does not Flash - Aqueous Water Base

FIRE EXTINGUISHING MEDIA: Water spray, dry chemical, Carbon dioxide.

FLAMMABLE LIMITS (Percent by Volume): No data available.

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. Equipment should be decontaminated after using.

HAZARDOUS PRODUCTS OF COMBUSTION: Carbon monoxide (CO), phosphorus oxides (PxOy), nitrogen oxides (NOx).

Section V – Accidental Release Measures

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.

Section VI – Handling & Storage

HANDLING & STORAGE: Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Wash hands thoroughly after handling or contact. Wash contaminated clothing before re-use. Good industrial practice in housekeeping and personal hygiene should be followed. Product may be mildly irritating or harmful if absorbed through the skin.

Keep away from food, drink and animal feed. Protect water sources. **DO NOT REUSE CONTAINERS.**

GENERAL PROCEDURES: Keep pesticide in original container. Store in a secure, preferably locked, storage area. Protect container from freezing. Do not contaminate drains, sewers and water ways when disposing of equipment rinse water.

STORAGE TEMPERATURE: Do not store below 32 degrees Fahrenheit.

Section VII – Exposure Controls/Personal Protection

PERSONAL PROTECTION:

EYES AND FACE: For application of product in accordance with label instructions, safety glasses, goggles or face shield should be worn. Handling of the product is not likely to present an eye exposure concern during normal handling.

SKIN: Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing chemical resistant gloves. 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, use 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 VIII – Chemical & Physical Information

APPEARANCE AND ODOR: Amber or light brown Liq. **SOLUBILITY (water):** completely miscible

BOILING POINT: No data available

SPECIFIC GRAVITY: 1.172

AUTO IGNITION TEMPERATURE: 443° C

EVAPORATION RATE (Butyl Acetate =1): Not determined **VAPOR PRESSURE:** Not determined

PERCENT VOLATILE (By Volume): Not determined **pH:** 4.5 – 5.0 (acid)

Section IX – Stability & Reactivity Information

STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS: None

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 POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

Section X – Toxicological Information:

Mutagenicity – In Vitro and in vivo mutagenicity tests – Not mutagenic.

Chronic effects/carcinogenicity – Mouse, oral 24 month: Tumors – None

Toxicity to reproduction/fertility- Rat, oral 2 generation -Effect on offspring only observed with maternal toxicity.

Section XI – Ecological 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 XII - Disposal & Transportation Information

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.

The data provided in this section is for information only. Please apply the appropriate regulation to properly classify your shipment for transportation.

Non hazardous under the applicable DOT, ICAO/TATA, OMO, TDG AND Mexican Regulations.

Section XIII - Regulatory Information

SARA TITLE III HAZARD CATEGORY:

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

SUDDEN RELEASE OF PRESSURE: No

SUBSTANCES REGULATED UNDER SARA, TITLE III, SEC. 302 Extremely Hazardous Substances: N/A
SEC. 313: N/A

OSHA status-

This product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200

CERCLA Reportable quantity: N/A OSHA Hazardous Components: Surfactants

NFPA: Health -3 Flammability- 1 Instability -1

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.