

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 Ground Force Vegetation Killer Conc.

ID # 2287134
Date: January 31, 2012

Section I - Product & Company Information

Manufacturer:
Bonide Products, Inc. (800) 424-9300 (Chemtrec)
6301 Sutliff Road (315) 736-8231
Oriskany, NY 13424

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					5.030%
Imazapyr, isopropylamine salt CAS #81510-83-0					.08%

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

EMERGENCY OVERVIEW CAUTION! Causes substantial but temporary eye injury. Harmful if Inhaled or swallowed. Avoid contact with eyes and clothing. Wash with soap and water after handling. **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. Call a poison control or doctor for treatment advice.

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.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin condition.

Section IV - Fire and Explosion Hazard Information

FLASH POINT: Not Applicable. **AUTO IGNITION:** Not Applicable.

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

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: Toxic fumes may be produced such as: carbon monoxide (CO), phosphorus oxides (P_xO_y), nitrogen oxides (NO_x).

EXPLOSION POTENTIAL: None

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 soap & water solution. 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. Prevent material from entering sewers. Do not flush to drain.

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. Avoid breaking or puncturing 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° 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: Chemical resistant gloves such as nitrile or rubber. Avoid prolonged or frequently repeated skin contact with this material. 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: 1.015-1.025

FLASH POINT: Does not flash

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

PERCENT VOLATILE (By Volume): Not determined **pH:** 6.0-6.7

Section IX – Stability & Reactivity Information

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat. Do not store near heat or open flame.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes and gases may be generated.

INCOMPATIBILITY (Avoid contact with): this product reacts with galvanized steel or unlined drums to produce hydrogen gas. May react with strong bases and oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS POLYMERIZATION: Will not occur

Section X – Toxicological Information:

Chronic effects/carcinogenicity – Repeated overexposure to glyphosate may decrease body weight gains and effect to liver. For Imazapyr, no adverse effects at approximately 1,7000 mg/kg/day (highest dose tested). Not a listed or known carcinogen by NTP, IARC or OSHA.

May cause irritation to mucous membranes or respiratory tract.

XI – Ecological Information:

Do not contaminate water. Product is toxic to plants. Drift and runoff may be hazardous to plants in water adjacent to treated areas. This product is not known to bioaccumulate and is inherently biodegradable.

Section XII - Disposal 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 or offer for recycling..

Section XIII - Transportation Information

DOT: Not DOT Regulated.

IMDG: Not Regulated

IATA: Not Regulated

The data provided in this section may not apply to all situations. Please apply the appropriate regulation to properly classify your shipment for transportation –consult 49 CFR.

Section IVX - Regulatory Information

EPA FIFRA Comment: Use of this product is regulated by the US Environmental Protection Agency through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

RCRA Waste code: None

Section 313 toxic Chemicals: None

NFPA: Health - 3 Flammability- 1 Instability - 0

TSCA- Product is exempt from TSCA because it is solely for FIFRA regulated use.

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.