



Product: GRASS-OUT  
 EPA Reg. No.: 2217-854-869  
 Effective Date: 6/1/2004

**MATERIAL SAFETY DATA SHEET**  
 Emergency Phone 800/535-5053

<b>Size</b>	<b>Product Number</b>	<b>UPC Code</b>
Quart	12132	0 49424 12132 8

**Note:** Be sure to compare the EPA registration number as given on the MSDS with the EPA registration number as given on the label as some products have had the active ingredients changed without a corresponding change in the UPC number or in the item description.

**1. INGREDIENTS:**

	CAS Number	OSHA PEL	ACGIH TLV	Other Limits
Fluazifop-p-butyl	79241-46-6	Not indicated	Not indicated	0.5mg/m <sup>3</sup>

**2. PHYSICAL AND CHEMICAL PROPERTIES:**

APPEARANCE: Amber liquid  
 ODOR: Slight solvent odor  
 BOILING POINT: > 210°F  
 MELT POINT/FREEZE POINT: Not Indicated / <35° F  
 EVAPORATION POINT: < 1  
 SOLUBILITY IN WATER: Emulsifiable  
 SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.00140  
 VAPOR PRESSURE (mm Hg): Not Indicated  
 DENSITY: 8.34 pounds/gallon  
 VAPOR DENSITY (Air =1): Not Indicated

**3. HEALTH HAZARDS (ACUTE AND CHRONIC):**

ROUTES OF ENTRY: Inhalation, ingestion, skin or eye contact.  
 EYES: Contact may cause severe irritation and burning.  
 SKIN: Contact may cause moderate to severe irritation to the skin.  
 INHALATION: Moderately irritating/corrosive to the mucous membranes. Inhalation of sprays may cause burning sensations in the respiratory tract, resulting in coughing.  
 INGESTION: May be severely irritating to the gastrointestinal system, if swallowed.  
 CHRONIC EFFECTS: Repeated or prolonged overexposure to solvents may cause damage to liver and kidneys and/or depression of the central nervous system.  
 SIGNS AND SYMPTOMS: Inhalation may cause burning in the chest, with coughing. Prolonged inhalation may cause dizziness.  
 MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None indicated

**4. FIRST AID MEASURES:**

FIRST AID FOR EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.  
 FIRST AID FOR SKIN: Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  
 FIRST AID FOR INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.  
 FIRST AID FOR INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth,



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if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800- 858-7378 for general information and/or medical information.

**5. FIRE FIGHTING MEASURES:**

FLASH POINT: >200°C  
F.P. METHOD: PM Closed Cup  
LOWER EXPLOSIVE LIMIT: Not Indicated  
UPPER EXPLOSIVE LIMIT: Not Indicated  
EXTINGUISHING MEDIA: Foam, CO<sub>2</sub>, dry chemical, water. The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173 Appendix H, and, therefore, would not be classified as a combustible liquid.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not Indicated. Runoff from fire control area or dilution water may cause pollution. If surface water is contaminated, contact local authorities.

SPECIAL FIRE FIGHTING PROCEDURES: Wear positive-pressure breathing apparatus and full protective clothing. Fight fire from maximum distance. Stay up wind and out of low areas.  
NFPA RATING: Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: B

**6. ACCIDENTAL RELEASE MEASURES:**

SPILL OR LEAK PROCEDURES: See Section 8 for Personal Protective Equipment. Provide good ventilation to the spill area. Contain and absorb spilled material on inert absorbent. Collect into drums; cover and label for disposal. Flush area with water if possible.

**7. HANDLING AND STORAGE:**

STORAGE: Store this product in the original container only. Keep container closed when not in use. Do not store near food or feed.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION:**

VENTILATION REQUIREMENTS: Good local ventilation is necessary; mechanical ventilation is recommended if exposure limits may be exceeded.

**PERSONAL PROTECTIVE EQUIPMENT:**

PROTECTIVE CLOTHING: Wear long sleeved shirt, long pants, chemical resistant gloves and shoes and socks.

EYE PROTECTION: Safety glasses with side shield.

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a NIOSH approved respirator with any R, P, or HE filter.

**9. STABILITY AND REACTIVITY:**

STABILITY: Stable.  
HAZARDOUS POLYMERIZATION: Will not occur.  
INCOMPATIBILITIES: Strong oxidizing agents.  
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May produce gases such as carbon dioxide, carbon monoxide, nitrogen oxides, and halogens when burning.



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- 10. TOXICOLOGICAL INFORMATION:**  
TOXICITY: No toxicological data available.
- 11. ECOLOGICAL INFORMATION:**  
ECOLOGICAL INFORMATION: This product is toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment washwater. Do not apply when weather conditions favor drift from target area.
- 12. DISPOSAL CONSIDERATIONS:**  
CONTAINER DISPOSAL:  
IF EMPTY: Do not reuse this container. Place in trash or offer for recycling, if available.  
IF PARTLY FILLED: Call you local solid waste agency or toll free number (1-800-CLEANUP) for disposal instructions. Never place unused product down any indoor or outdoor drain.
- 13. TRANSPORTATION INFORMATION:**  
D.O.T. PROPER SHIPPING NAME: N/A  
TECHNICAL SHIPPING NAME: N/A  
D.O.T. HAZARD CLASS: N/A  
U.N./N.A. NUMBER: N/A  
PRODUCT RQ (lbs.): N/A  
D.O.T. LABEL: N/A  
D.O.T. PLACARD: N/A  
FREIGHT CLASS BULK: N/A  
FREIGHT CLASS PACKAGE: Herbicides, NOI – NMFC #50320  
PRODUCT LABEL: N/A
- 14. REGULATORY INFORMATION:**  
OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.  
TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.  
CERCLA REPORTABLE QUANTITY: None.  
SARA TITLE III:  
Section 302 Extremely Hazardous Substances: None  
Section 311/312 Hazard Categories: Immediate Health Hazard, Delayed Health Hazard  
Section 313 Toxic Chemicals: None  
RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24).

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate as of the effective date given above, Green Light makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Green Light's control. Therefore, users are responsible for determining whether under their own operating conditions the product is suitable for their particular use. Users assume all risks of use, handling, and disposal of the product. The publication or use of, or reliance upon, information contained herein does not relate to the use of this product in combination with any other material or in any other process.