

GNL-0007 Rev. 0

MATERIAL SAFETY DATA SHEET

Emergency Phone 800/535-5053

Size	Product Number	UPC Code
4 lb.	40507	0 49424 40504 6
8 lb.	40511	0 49424 40508 4
8 lb.	40512	0 49424 40508 4

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**:

N-Butyl-N-ethyl-alpha, alpha, alpha-trifluro-2,6- dinito-p-toluidine (Benefin) CAS No. 001861-40-1 3,5-dinitro-N4, N4-dipropylsulfa-nilamide (oryzalin) CAS No. 019044-88-3 Other ingredients 98%

2. PHYSICAL DATA:

BOILING POINT:	N/A
VAPOR PRESSURE:	N/A
VAPOR DENSITY:	N/A
SOL. IN WATER:	Not soluble in water
SPECIFIC GRAVITY:	N/A
APPEARANCE:	Light yellow-orange free flowing granule
ODOR:	Slight aromatic odor
pH(aqueous 50/50):	7.5 to 8.5

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT:	N/A
METHOD USED:	N/A
FLAMMABLE LIMITS:	LFL: N/A UFL: NA
AUTO-IGNITION TEMPERATURE:	N/A
EXTINGUISHING MEDIA:	Use water, CO_2 or dry chemicals.
FIRE AND EXPLOSION HAZARDS:	Product will emit toxic fumes as it burns.
FIRE-FIGHTING EQUIPMENT:	Wear full protective clothing and use self-contained breathing apparatus.

4. REACTIVITY DATA:

STABILITY (Conditions to avoid): INCOMPATIBILITY (Specific materials	None known
to avoid):	None known
HAZARDOUS DECOMPOSITION PRODUCTS:	Will emit toxic vapors as it burns.
HAZARDOUS POLYMERIZATION:	Does not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ENVIRONMENTAL DATA:	Do not apply directly to water or wetlands. Do not contaminate water
	when disposing of equipment washwaters.
ACTION TO TAKE FOR SPILLS:	Contain and sweep up material of small spills and dispose as waste.
	Large spills report to Infotrac at 800/535-5053 and DowElanco for
	assistance. Prevent runoff.
DISPOSAL METHOD:	Do not contaminate water, food or feed by storage or disposal. Wastes
	resulting from the use of this product may be disposed of on site or at an
	approved waste disposal facility in accordance with applicable
	regulations.

Product: AMAZE[®] GRASS & WEED PREVENTER₂ EPA Reg. No.: 70506-56-869 Effective Date: 08/01/2004



HEALTH HAZARD DATA:

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6.

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ACUTE EXPOSURE (XL 2G):	
EYES:	Rabbit, irritant
SKIN:	Rabbit, 2,000 mg/kg, no deaths or toxicity, slight irritant.
INHALATION:	This formulation is not considered to be an inhalation hazard due to
INFIALATION.	
INGESTION:	coarse granular nature and low potential for aerosolization.
	Rat, 3,750 mg/kg, no deaths, leg weakness.
SENSITIZATION:	Guinea pig, not a contact sensitizer.
	chronic, teratogenic, and reproductive toxicity studies in laboratory animals
	durations of exposure were far in excess of those likely to occur in
humans.	
(Benefin Technical):	Demoste diama and deeper of her of a needlock diamatic to the time budged
CHRONIC TOXICITY:	Repeated large oral doses of benefin produced liver effects that included
	increased weight, and enzyme activity and enlargement of liver cells.
	Additional effects included reduced growth and survival, decreased
	hemoglobin and red blood cell counts, and increased weights of thyroids,
	uterus, ovaries, and testes.
TERATOLOGY & REPRODUCTION:	Not teratogenic. No impairment of reproductive capacity.
MUTAGENICITY:	Not mutagenic in either bacterial or mammalian cells.
CARCINOGENCITY:	Not listed as a carcinogen or potential carcinogen by ACGIH, NCI/NTP,
	IARC, or OSHA. Not considered to be carcinogenic in lifetime feeding
	studies.
(Oryzalin Technical):	
CHRONIC TOXICITY:	Growth retardation; decreased survival; decreased blood sugar levels;
	decreased red blood cell counts; decreased hemoglobin; increased
	cholesterol, blood urea nitrogen, bilirubin, and alkaline phosphatase;
	increased liver, kidney, spleen; and testes weights; increased thyroid
	tumors probably secondary to the antithyroid activity of oryzalin;
	increased incidence of benign skin and mammary gland tumors.
TERATOLOGY & REPRODUCTION:	Not teratogenic. No impairment of reproductive capacity.
MUTAGENICITY:	Not mutagenic in bacterial cells; in significant potential for mutagenicity in
	mammalian cells.
CARCINOGENICITY:	Not listed as a carcinogen or potential carcinogen by IARC, NCI/NTP,
	OSHA, or ACGIH. Not considered to be carcinogenic in lifetime feed
	studies. EPA - Class C - possible human carcinogen (limited evidence
SIGNS & SYMPTOMS OF EXPOSURE	from animal studies).
Benefin	From field experience with finished products containing benefin, some of
	which contain organic solvents, there have been reports of nausea,
	headache, rash, eye irritation, and dyspnea. Rare or singular events also
	reported: fever, paresthesia, drowsiness, aplastic anemia, chills,
	anaphylactoid reaction, syncope, abdominal cramping, coughing, liver
	pain, loss of memory, diaphoresis, mouth burning, hand burning, face
	edema, loss of taste, muscle spasm, and dizziness.
Oryzalin	The most commonly reported effect of exposure is contact dermatitis or
	rash. Some cases have occurred during manufacture and may be related
	to an intermediate chemical, but other reports have involved finished
	products of oryzalin. Eye irritation may also occur. One instance of
	ingestion was uneventful.
PRIMARY ROUTES OF ENTRY:	Skin and inhalation.



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7.	FIRST AID: EYES:	Immediately flush eyes with plenty of water and call a physician if
	ETES.	irritation develops.
	SKIN:	Wash all exposed areas with plenty of soap and water. Wash all
	NOCOTION	contaminated clothing before reuse. Call a physician if irritation develops.
	INGESTION:	Do not induce vomiting. Call physician or Poison Control Center. If available, administer activated charcoal (6 - 8 heaping teaspoonfuls) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.
INHALATION:		Coarse granular particles make inadvertent inhalation unlikely. If discomfort occurs, move individual to fresh air. If breathing difficulty occurs, provide cardiopulmonary resuscitation assistance and get medical attention.
	MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:	No corroborative information is available that would establish the aggravation of a medical condition by exposure to Amaze. Animal studies indicate that benefin may be a potential contact sensitiser, but this has not been shown to occur under normal conditions of use. Highly allergic individuals should take special precautions to avoid skin contact with Amaze or breathing of dust.
8.	HANDLING PRECAUTIONS: EXPOSURE GUIDELINE(S):	Benefin, PEL and TLV not established; Oryzalin, PEL and TLV not established.
	VENTILATION: RESPIRATORY PROTECTION: SKIN PROTECTION:	Good general ventilation should be sufficient for most conditions. In enclosed spaces, use NIOSH approved dust respirator. Wear protective clothing such as coveralls, a long sleeved shirt, and impermeable gloves when handling this product.
	EYE PROTECTION:	Use safety glasses.
		Keep out of reach of children. Causes eye irritation. Harmful if
		swallowed, inhaled or absorbed through the skin. Avoid breathing dust and contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.
	NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704): SHIPPING REQUIREMENTS:	Health: 2 Flammability: 1 Reactivity: 0 DOT Hazard Class: Not regulated
	REGULATORY INFORMATION:	(Not meant to be an all-inclusive-selected regulations represented.)

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