

**MATERIAL SAFETY DATA SHEET**

Agricultural Products Group  
P.O.Box 13528,  
Research Triangle Park, NC 27709

**EMERGENCY TELEPHONE NUMBERS:**

**BASF Corporation: 1 (800) 832-HELP**  
**CHEMTREC: 1 (800) 424-9300**

Product No.: 579666

Sahara® DG herbicide

Date Prepared: 7/25/2000 Date Revised:

**SECTION I**

Trade Name: Sahara® DG herbicide

**Chemical Name:** 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid; N'-(3,4-dichlorophenyl)-N,N-dimethylurea  
N'-(3,4-dichlorophenyl)-N,N-dimethylurea

**Synonyms:** Imazapyr, AC 243,997;  
Diuron

**Formula:** C13 H15 N3 O3;  
C9 H10 Cl2 N2 O

**Chemical Family:** Imidazolinone/Substituted Urea**Mol Wt:** 261.3/233.1**SECTION II - INGREDIENTS**

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
Imazapyr	81334-34-1	7.78	5 mg/m(3) - manufacturer recommended
Diuron*	330-54-1	62.22	10 mg/m(3) TWA - ACGIH
Inerts	N/A	30.00	None established

This formulation contains clay. Clay may contain more than 0.1% crystalline silica.

**SARA Title III Section 313:** \*Listed**SECTION III - PHYSICAL DATA****BOILING/MELTING POINT @760mm Hg:** N/D **pH:** 3.26 (2% dispersion)**VAPOR PRESSURE mmHg @ 20°C:** N/D**SPECIFIC GRAVITY OR BULK DENSITY:** 37 - 43 lb/ft(3)**SOLUBILITY IN WATER:** Disperses**APPEARANCE:** Beige granules **ODOR:** Odorless **INTENSITY:** N/A**SECTION IV - FIRE AND EXPLOSION DATA****FLASH POINT (TEST METHOD):** N/D **AUTOIGNITION TEMP:** N/D**FLAMMABILITY LIMITS IN AIR (% BY VOL):** LOWER: N/D UPPER: N/D**NFPA 704 HAZARD CODES****HEALTH:** N/R **FLAMMABLE:** N/R **INSTABILITY:** N/R **OTHER:** N/R**NFPA 30 STORAGE CLASSIFICATION:** N/R**EXTINGUISHING MEDIUM** Use water fog, foam, CO(2), or dry chemical extinguishing media.**SPECIAL FIREFIGHTING PROCEDURES** Firefighters should be equipped with self-contained breathing apparatus and turnout gear.**UNUSUAL FIRE EXPLOSION HAZARDS** Organic dusts may form an explosive dust/air mixture. Combustion may result in toxic gases/vapors.

**SELECT ACRONYM KEY**

N/A - Not available; N/D - Not determined; N/R - Not rated; N/E - Not established

**SECTION V - HEALTH DATA****TOXICOLOGICAL TEST DATA:**

Data for the formulated product:

Rat (female), Oral LD50 &gt; 5359 mg/kg

Rat (male), Oral LD50 &gt; 5000 mg/kg

Rat, Dermal LD50 &gt; 2000 mg/kg

Rat, Inhalation LC50 (4 hr) - 14.8

Rat, Inhalation LC50 (1 hr calculated) - 3.7

Rabbit, Eye Irritation - Moderately irritating

Rabbit, Skin Irritation - Slightly irritating

Guinea pig, Dermal Sensitizer - Not a sensitizer

**OSHA, NTP, or IARC Carcinogen:** See EFFECTS OF OVEREXPOSURE.**EFFECTS OF OVEREXPOSURE:****See Product Label and Directions For Use for additional precautionary statements.**

CAUTION: Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

This formulation contains clay. Clay may contain more than 0.1% crystalline silica.

Overexposure to crystalline silica results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses. The International Academy for Research on Cancer (IARC) has classified crystalline silica in Group 1 (those agents with evidence of carcinogenicity to humans).

Existing medical conditions aggravated by this product: None known

**FIRST AID PROCEDURES****If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.**If in eyes:** Flush eyes with plenty of water. Call a physician if irritation persists.**If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.**If swallowed:** 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 by a poison control center or doctor. Do not give anything to an unconscious person.**Note to physician:** Treat symptomatically. No specific antidote.**Note:** Have the product container or label with you when calling a poison control center or doctor or going for treatment.**SECTION VI - REACTIVITY DATA****STABILITY:** Stable. Do not store below 32° F or above 100° F.**CONDITIONS TO AVOID:** See Section X ADDITIONAL INFORMATION**CHEMICAL INCOMPATIBILITY:** Oxidizing agents. Unlined steel.**HAZARDOUS DECOMPOSITION PRODUCTS:** Combustion may result in toxic gases/vapors.**HAZARDOUS POLYMERIZATION:** Does not occur.**CONDITIONS TO AVOID:** Does not polymerize.**CORROSIVE TO METAL:** No**OXIDIZER:** No

**SECTION VII - PERSONAL PROTECTION****Respiratory Protection:**

Supplied air respirators should be worn if large quantities of mist/dust are generated or prolonged exposure possible.

**Eye Protection:**

Chemical goggles when respirator does not provide eye protection.

**Protective Clothing:**

Rubber gloves and protective clothing as necessary to prevent skin contact.

**Ventilation:**

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

**SECTION VIII - ENVIRONMENTAL DATA****ENVIRONMENTAL TOXICITY DATA**

See the product label for information regarding environmental toxicity.

**SARA 311/312 REPORTING**

**FIRE: N      PRESSURE: N      REACTIVITY: N      ACUTE: Y      CHRONIC: N      TPQ(lbs): N/R**

**SPILL AND LEAK PROCEDURES:**

In case of large scale spillage of this product, avoid contact, isolate area and keep out animals and unprotected persons. Call CHEMTREC (800 424-9300) or BASF Corporation (800 832-HELP). For a small spill, wear personal protective equipment as specified on the label. Eliminate all ignition sources.

FOR A LIQUID SPILL: Dike and contain the spill with inert material (sand, earth, etc.) and transfer the liquid and solid diking materials to separate containers for disposal. Remove personal protective equipment and decontaminate it prior to re-use.

**HAZARDOUS SUBSTANCE SUPERFUND:      Yes      RQ(lbs): 100**

**WASTE DISPOSAL METHOD:**

Pesticide wastes are acutely hazardous. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**HAZARDOUS WASTE 40CFR261: No**

**HAZARDOUS WASTE NUMBER: None**

**CONTAINER DISPOSAL:**

FOR PLASTIC CONTAINERS: Triple rinse (or equivalent) and add rinsate to the spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

FOR BULK CONTAINERS: Reusable containers should be returned to the point of purchase for cleaning and re-filling.

FOR MINIBULK CONTAINERS: Clean all tanks on an approved loading pad so rinsate can be collected and mixed into the spray solution or into a dedicated tank. Using a high pressure sprayer, rinse several times with small volumes of water to minimize rinsate.

**SECTION IX - SHIPPING DATA - PACKAGE AND BULK****D.O.T. PROPER SHIPPING NAME (49CFR172.101-102):**

Pkg Size : None

**HAZARDOUS SUBSTANCE****(49CFR CERCLA LIST):**

Diuron (RQ as product = 161 lbs)

**RQ(lbs):** 100**D.O.T. HAZARD CLASSIFICATION (CFR 172.101-102):****PRIMARY****SECONDARY**

Pkg Size - None

**D.O.T. LABELS REQUIRED (49CFR172.101-102):**

Pkg Size - None

**D.O.T. PLACARDS  
REQUIRED (CFR172.504):****POISON CONSTITUENT  
(49CFR172.203(K)):****BILL OF LADING DESCRIPTION**

Compounds, Tree or Weed killing, (Herbicide), NOIBN

This product is not regulated in the package size by the Department of Transportation.

**CC NO.:** Not applicable**UN/NA CODE:** Pkg- None**SECTION X - ADDITIONAL INFORMATION****Sahara® DG herbicide****PHYSICAL AND CHEMICAL HAZARDS**

Store in original container in cool,dry, well ventilated place away from ignition sources, heat or flame.

Spray solutions of SAHARA® DG herbicide should be mixed, stored and applied only in

stainless steel, fiberglass, plastic and plastic-lined steel containers.

**EPA Reg. No. 241-372****KEEP OUT OF REACH OF CHILDREN****CAUTION****BASF Corporation**

Agricultural Products Group

P.O.Box 13528,

Research Triangle Park, NC 27709

(919) 547-2000

**DISCLAIMER**

**IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.**