

**MATERIAL SAFETY DATA SHEET**

Agricultural Products Group  
P.O.Box 13528,  
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(919) 547-2000

**EMERGENCY TELEPHONE NUMBERS:**

BASF Corporation: 1 (800) 832-HELP

CHEMTREC: 1 (800) 424-9300

Product No.: 557018

Drive® 75 DF herbicide

Date Prepared: 7/1/1998 Date Revised: 5/15/2002

**SECTION I**

Trade Name: Drive® 75 DF herbicide

Chemical Name: 3,7-dichloro-8-quinolinecarboxylic acid

Synonyms: Quinclorac

Formula: C(10) H(5) O(2) N Cl(2)

Chemical Family: Quinolinecarboxylic Acid

Mol Wt: 242.06 Quinclorac

**SECTION II - INGREDIENTS**

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
Quinclorac	84087-01-4	75	Not established
Inert Ingredients	N/A	25	2 mg/m(3) ACGIH
This formulation contains kaolin. Kaolin contains small amounts of crystalline silica. This formulation may contain more than 0.1% crystalline silica.			

SARA Title III Section 313: Not listed

**SECTION III - PHYSICAL DATA**

BOILING/MELTING POINT@760mm Hg:	237 °C	pH: 3.2 - 3.6 (1-5% aqueous solution)
VAPOR PRESSURE mmHg @ 20°C:	< 1 x 10 <sup>-7</sup>	
SPECIFIC GRAVITY OR BULK DENSITY:	565. - 593. g/L	
SOLUBILITY IN WATER:	64 ppm at pH 7	
APPEARANCE:	Light tan granules	ODOR: Talc-like INTENSITY: Mild

**SECTION IV - FIRE AND EXPLOSION DATA**

FLASH POINT (TEST METHOD):	N/D	AUTOIGNITION TEMP: **See below
FLAMMABILITY LIMITS IN AIR (% BY VOL):	LOWER: N/D	UPPER: N/D
NFPA 704 HAZARD CODES		
HEALTH: 2	FLAMMABLE: 3*	INSTABILITY: 1* OTHER:
NFPA 30 STORAGE CLASSIFICATION: Non-flammable solid, Class III B		
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	*May form an explosive dust/air mixture. Organic solids will burn at elevated temperatures. All products of incomplete combustion and/or decomposition have not been determined. **Exotherm initiation temperature (Grewer oven): 264° C	

**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:**

Rat, Oral LD50 - 2200 mg/kg  
 Rat, Dermal LD50 > 2000 mg/kg  
 Rat, Inhalation LC50 (4 hr) - 6.1 mg/kg (4 hr)  
 Rabbit, Eye Irritation - Moderately irritating  
 Rabbit, Skin Irritation - Irritating  
 Guinea Pig, Dermal Sensitizer - Sensitizer (for active ingredient)

**EFFECTS OF OVEREXPOSURE:**

**See Product Label and Directions For Use for additional precautionary statements.**

## Precautionary Statements

Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Causes moderate eye injury. May cause allergic skin response.

For a minor component of the formulation:

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 exposure to this material: None known.

**FIRST AID PROCEDURES**

**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.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth 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.

**NOTE to physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

**SECTION VI - REACTIVITY DATA**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Do not store in wet conditions

**CHEMICAL INCOMPATIBILITY:** Not known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO(2), CO, HCl, NO(x) possible combustion products.

**HAZARDOUS POLYMERIZATION:** Does not occur.

**CONDITIONS TO AVOID:** N/A

**CORROSIVE TO METAL:** No

**OXIDIZER:** No

**SECTION VII - PERSONAL PROTECTION**

**PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.**

**RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**

**Respiratory Protection:**

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

**Eye Protection:**

Chemical goggles when respirator does not provide eye protection.

**Protective Clothing:**

Gloves, long-sleeved shirt, and slacks.

**Ventilation:**

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

**SECTION VIII - ENVIRONMENTAL DATA**

**ENVIRONMENTAL TOXICITY DATA**

For active ingredient (quinclorac):

Rainbow Trout, LC50 > 100 mg/L

Bluegill Sunfish, LC50 > 100 mg/L

Daphnia magna, LC50 = 113 mg/L

Estuarine/Marine Organisms LC50:

(a) sheephead minnow > 100 mg/L

(b) blue crab > 100 mg/L

(c) quahog clam > 100 mg/L

(d) mysid shrimp = 67 mg/L

Bobwhite Quail, Oral LD50 > 2000 mg/kg

Mallard Duck, Oral LD50 > 5000 mg/kg

Bobwhite Quail, Dietary > 5000 mg/kg

Not toxic to bees.

**SARA 311/312 REPORTING**

**FIRE: No      PRESSURE: No      REACTIVITY: No      ACUTE: Yes      CHRONIC: Yes      TPQ(lbs): 10,000**

**SPILL AND LEAK PROCEDURES:**

Spills should be contained and placed in suitable containers for disposal.

This material is not regulated under RCRA or CERCLA ("Superfund").

**HAZARDOUS SUBSTANCE SUPERFUND:      No      RQ(lbs): None**

**WASTE DISPOSAL METHOD:**

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

**HAZARDOUS WASTE 40CFR261:      No      HAZARDOUS WASTE NUMBER:      None**

**CONTAINER DISPOSAL:**

Completely empty box into application equipment. Then dispose of packaging in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

None

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

No

**RQ(lbs):** None**D.O.T. HAZARD CLASSIFICATION (CFR 172.101-102):****PRIMARY**

None

**SECONDARY**

None

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

None

**D.O.T. PLACARDS****REQUIRED (CFR172.504):**

None

**POISON CONSTITUENT****(49CFR172.203(K)):**

None

**BILL OF LADING DESCRIPTION**

Compounds, Tree or Weed Killing, (Herbicides), NOIBN

**CC NO.:** 431**UN/NA CODE:** None**SECTION X - ADDITIONAL INFORMATION****Drive® 75 DF herbicide****EPA Reg. No. 7969-130****KEEP OUT OF REACH OF CHILDREN****CAUTION****Complete Label and Directions For Use are attached to the product.****Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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