

**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.:** 817091**Pyramin® DF Herbicide****Date Prepared:** 3/21/89 **Date Revised:** 3/2/2000**SECTION I****Trade Name:** Pyramin® DF Herbicide**Chemical Name:** 5-amino-4-chloro-2-phenyl-3(2H)-pyridazinone (active ingredient)**Synonyms:** Pyrazon, Chloridazon**Formula:** C(10) H(8) Cl N(3) O  
Chloridazon**Chemical Family:** Pyridazinone**Mol Wt:** 221.6 Chloridazon**SECTION II - INGREDIENTS**

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
Chloridazon (active ingredient)	1698-60-8	65	Not established
Related Pyridazinones	N/A	2.7	Not established
Inerts	N/A	32.3	Not established

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:** est. 200°C **pH:** 9 (1% aq. sol.) approx.**VAPOR PRESSURE mmHg @ 20°C:** < 0.01**SPECIFIC GRAVITY OR BULK DENSITY:** 560. g/L**SOLUBILITY IN WATER:** Dispersible**APPEARANCE:** Brown Solid**ODOR:** Characteristic**INTENSITY:** Weak**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:** 1**FLAMMABLE:** 3\***INSTABILITY:** 1\***OTHER:****NFPA 30 STORAGE CLASSIFICATION:**

Non-flammable solid, Class III B

<b>EXTINGUISHING MEDIUM</b>	Use water fog, CO(2), or dry chemical extinguishing media.
<b>SPECIAL FIREFIGHTING PROCEDURES</b>	Firefighters should be equipped with self-contained breathing apparatus and turnout gear.
<b>UNUSUAL FIRE EXPLOSION HAZARDS</b>	*May form explosive dust/air mixtures. Adequate ventilation and housekeeping must be maintained to minimize dust accumulation. The following can be given off in a fire: carbon monoxide, nitrogen oxides, hydrogen chloride.

### 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:

PYRAMIN® DF Herbicide:

Rat, Oral LD50 - 1160 mg/kg

Rat, Dermal LD50 > 2000 mg/kg

Rat, Inhalation LC50 - (4 hr) 3.28 mg/L

Rabbit, Eye Irritation - Slight irritation

Rabbit, Skin Irritation - Slight irritation

Rabbit, Dermal Sensitization - Not a sensitizer

#### EFFECTS OF OVEREXPOSURE:

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

Hazards to Humans and Domestic Animals

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dusts or spray mists. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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:

No information available for this mixture

#### FIRST AID PROCEDURES

<b>If swallowed:</b>	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.
<b>If in eyes:</b>	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.
<b>If on skin:</b>	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.
<b>If inhaled:</b>	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.
<b>Note:</b>	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. Shelf life of up to 1 year at 50°C.**CONDITIONS TO AVOID:** Rapidly photolyzed in sunlight.**CHEMICAL INCOMPATIBILITY:** N/A**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, nitrogen, HCl**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 Chloridazon:

Rainbow Trout [96 hours] LC50 &gt; 46 - &lt; 100 mg/L

Daphnia magna, [48 hours] EC/LC50 = 258.5 mg/L

Algae, [0-72 hours] EC/LC50 = 0.91 mg/L

Non-toxic to bees.

**SARA 311/312 REPORTING****FIRE: No    PRESSURE: No    REACTIVITY: No    ACUTE: No    CHRONIC: Yes    TPQ(lbs): 10,000****SPILL AND LEAK PROCEDURES:**

Spills should be recovered for use according to label directions. If spills cannot be recovered for use, place in suitable container for disposal.

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

**HAZARDOUS SUBSTANCE SUPERFUND: No****RQ(lbs): None****WASTE DISPOSAL METHOD:**

If possible, use according to label directions; otherwise, incinerate or bury in a licensed facility.

Do not discharge into waterways or sewer systems without proper authority.

Do not contaminate waterways when disposing of equipment washwaters.

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

Offer for recycling or reconditioning; or render unusable and dispose of in an approved landfill.

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

None - Not Regulated

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

No

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

None - Not Regulated

**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:** N/A**SECTION X - ADDITIONAL INFORMATION****Pyramin® DF Herbicide**

Information Updated:

SECTION V: IARC group upgraded to 1.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**EPA Reg. No. 7969-81****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.

**Manufactured in Germany for:**

BASF Corporation

P.O. Box 13528

Research Triangle Park, NC 27709

**DISCLAIMER**

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