



For Use in the United States Only
Material Safety Data Sheet

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NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

IDENTIFICATION

Trade Name: CASORON® 4G

CAS Number: 1194-65-6 (active)

Chemical Name:

Chemical Family: Benzonitrile

2,6-dichlorobenzonitrile 4%

Inerts: 96%

Common Name: Dichlobenil

SPECIAL REGULATORY HAZARDS

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limit</u>	<u>OSHA (1910.1200)</u>	<u>EEC*</u>
Product	Mixture	ND	Not hazardous	Not hazardous

Hazard assessment based on available data.

Transportation: NA

PHYSICAL DATA

Appearance and Odor: Tan, granular solid; characteristic odor

Solubility: Insoluble in water; slightly soluble in most organic solvents

Specific Gravity (H₂O=1): ND

Vapor Pressure @ 20°C: NA

Melting Point: ND

Vapor Density (Air = 1): NA

Boiling Point: NA

Volatility @ 70°F: Low

Other Data: Bulk Density: 40 lbs./ft.³

FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA

Autoignition Temperature: 579° C (1075° F)

Extinguishing Media: Water spray, dry chemical.

Flammable Limits: ND

Special Fire Fighting Procedures: Protect against inhalation of combustion products.

Unusual Hazards: None identified.

REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.

Incompatibility: Strong alkalies.

Decomposition Products: Active ingredient may hydrolyze to 2,6-dichlorobenzamide in alkaline/alcoholic solutions.

NA = Not Applicable

ND = Not Determined

* European Economic Community

Uniroyal makes no representation or warranty with respect to the information in this Material Safety Data Sheet. The information is however, as of this date provided, true and accurate to the best of Uniroyal's knowledge. This list of information is not intended to be all inclusive. Actual conditions of use and handling may require considerations of information other than, or in addition to, that which is provided herein.

SPECIAL PROTECTION INFORMATION

Engineering Controls: Sufficient ventilation to minimize dust exposure.

Personal Protection Equipment: Avoid all personal contact. Observe good personal hygiene. Chemical resistant gloves, protective clothing and eye protection should be worn when handling. Launder clothing before reuse. In the absence of adequate ventilation, use NIOSH-certified **respiratory protection**.

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

STORAGE, SPILLS AND DISPOSAL INFORMATION

Storage: Do not contaminate water, food or feed by storage or disposal. Store in a dry location. Do not store with propagative structures such as seed, bulbs, tubers, nursery stock, etc., or with food or feed products.

Spills: Vacuum up to avoid creating dust. Transfer into secure containers for proper disposal. Use personal protective equipment as outlined above. Reportable Quantity: 100 lbs. (Dichlobenil)

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

Environmental Information: Do not contaminate water when disposing of equipment washwaters. Cover, collect, or incorporate granules spilled on the soil surface.

Tests on Bluegill, Rainbow Trout, and Large Mouth Bass demonstrate LC50 values between 15 and 30 ppm. Adult Quail LC50 = 1000 ppm. These data indicate that Dichlobenil is not toxic to these species.

HEALTH RELATED DATA

SPECIFIC HAZARDS: No health hazards have been identified.

Primary Route(s) of Entry: Inhalation, skin absorption.

First Aid Procedures: **IF SWALLOWED:** Call a physician or Poison Control Center immediately. Drink promptly a large quantity of water.

IF INHALED: Remove to fresh air; if abnormal symptoms develop, contact a physician.

IF ON SKIN: Wash affected area with soap and water.

IF IN EYES: Flush with plenty of water for at least 15 minutes. Contact a physician.

TOXICOLOGY INFORMATION:

Oral toxicity: LD50 (rats) - > 5 g/kg

Irritation: skin (rabbits) - negative

Casoron MSDS Toxicology:

21 day rabbit dermal study: Doses of 100, 300 and 1000 mg/kg/day. No effects were seen. NOEL = > 1000 mg/kg/day.

1 year dog feeding study: Doses of 1, 6 and 36 mg/kg/day. Effects seen on body weight, hematology, clinical chemistry, organ weights and histopathology. NOAEL = 1 mg/kg/day.

2 year rat feeding study: Doses of 2.5, 20 and 160 mg/kg/day. Effects seen on survival, body weight, food intake and liver and kidney histopathology. Slight increase in liver tumors in high dose females. NOEL - 2.5 mg/kg/day.

20 month hamster feeding study: Doses of 34, 75 and 169 mg/kg/day. Effects seen on body weight and liver histopathology. Increase in benign liver tumors in high dose males.

Rat reproduction study: Doses of 3, 18 and 100 mg/kg/day. Effects seen on parental and pup body weights. No reproductive effects. NOEL for systemic adult toxicity and pup weight effect = 3 mg/kg/day. Reproductive NOEL = > 100 mg/kg/day.

Rabbit teratology study: Doses of 15, 45 and 135 mg/kg/day. Maternal toxicity including body weight and food intake reductions seen at 135 mg/kg/day. Reduced fetal weight and increased developmental malformations in high dose group were attributed to severe maternal toxicity. NOEL for maternal and developmental toxicity = 45 mg/kg/day.

Rat teratology study: Doses of 20, 60 and 180 mg/kg/day. Maternal toxicity including body weight and food intake reductions seen at 60 and 180 mg/kg/day. No teratogenic or developmental effects. NOEL for maternal toxicity = 20 mg/kg/day. NOEL for developmental effects = > 180 mg/kg/day.

Mutagenicity: Negative in the following assays: Ames reverse mutation, L5178Y mouse lymphoma, *B.subtilis* rec assay, human lymphocyte chromosome aberration, mouse micronucleus, *S. cerevisiae* mitotic gene conversion and Balb/3T3 fibroblast transformation. Equivocal in human epithelial cell DNA repair assay.