

# Safety data sheet

## DRIVE 75 DF

Revision date : 2005/06/24  
Version: 1.1

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(30233232/MDS\_CPA\_US/EN)

### 1. Substance/preparation and company identification

Company  
BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932

24 Hour Emergency Response Information  
CHEMTREC: (800) 424-9300  
BASF HOTLINE: (800) 832-HELP

Substance number: 000000063435  
Molecular formula: C(10)H(2)O(2)NCl(2)  
Molecular weight: 242.06 g/mol  
Chemical family: quinoline derivative  
Synonyms: quinclorac (active ingredient)

### 2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
84087-01-4	75.0 %	quinclorac
	25.0 %	Inert ingredients
14808-60-7	>= 0.1 %	crystalline silica

### 3. Hazard identification

#### Emergency overview

CAUTION: MAY BE HARMFUL IF SWALLOWED.  
HARMFUL IF INHALED.  
HARMFUL IN CONTACT WITH SKIN.  
CAUSES EYE IRRITATION.  
MAY CAUSE SKIN IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.  
Avoid contact with the skin, eyes and clothing.  
Avoid inhalation of dusts/mists/vapours.

#### Potential health effects

See Product Label for additional precautionary statements.

#### Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

#### Acute toxicity:

Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

#### Irritation:

May cause moderate but temporary irritation to the eyes. May cause moderate irritation to the skin.

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**Sensitization:**

Skin sensitizing effects were not observed in animal studies. Some individuals may develop an allergic dermatitis.

**Repeated dose toxicity:**

*Information on: crystalline silica*

*This product contains crystalline silica.*

*Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses.*

*The International Agency for Research on Cancer (IARC) has classified crystalline silica in Group 1 (those agents with evidence of carcinogenicity to humans) and National Toxicology Program (NTP) has included it in its Annual Report on Carcinogens.*

**Potential environmental effects****Aquatic toxicity:**

There is a high probability that the product is not acutely harmful to aquatic organisms.

**Terrestrial toxicity:**

With high probability not acutely harmful to terrestrial organisms.

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## 4. First-aid measures

**General advice:**

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

**If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.

Keep patient calm, remove to fresh air, seek medical attention.

**If on skin:**

Rinse skin immediately with plenty of water for 15 - 20 minutes.

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

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**If swallowed:**

Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

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. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

**Note to physician**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.  
Antidote: No known specific antidote.

### 5. Fire-fighting measures

Flash point: Not applicable  
Autoignition: No data available.

**Suitable extinguishing media:**

foam, dry extinguishing media, carbon dioxide, water spray

**Hazards during fire-fighting:**

carbon monoxide, Carbon dioxide, hydrochloric acid, nitrogen oxides  
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

**Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

**NFPA Hazard codes:**

Health : 2      Fire: 1      Reactivity: 1      Special:

### 6. Accidental release measures

**Personal precautions:**

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

**Environmental precautions:**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

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**Cleanup:**

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

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## 7. Handling and storage

**Handling****General advice:**

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. 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. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used up as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

**Protection against fire and explosion:**

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

**Storage****General advice:**

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

**Storage incompatibility:**

General: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.  
Segregate from foods and animal feeds.

**Storage stability:**

Storage duration: 24 Months

**Temperature tolerance**

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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### 8. Exposure controls and personal protection

**Users of a pesticidal product should refer to the product label for personal protective equipment requirements.**

#### **Advice on system design:**

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

#### **Personal protective equipment**

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

##### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Particle filter Type P2 or FFP2, ( medium efficiency for solid and liquid particles e.g. EN143,149) Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.

##### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

##### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Tightly fitting safety goggles (splash goggles) (EN 166)

##### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

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**General safety and hygiene measures:**

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately. Take off immediately all contaminated clothing.

### 9. Physical and chemical properties

Form:	granules, solid granules
Odour:	mild, characteristic
Colour:	tan
pH value:	3.2 ( 10 g/l) 3.2 ( 10 g/l)
Bulk density:	565 - 593 g/l 565 - 593 g/l
Solubility in water:	64 mg/l 64 g/l

### 10. Stability and reactivity

**Dust explosion class:**

Kst value of 0 (St 0)

**Conditions to avoid:**

Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage.

**Substances to avoid:**

No substances known that should be avoided.

**Hazardous reactions:**

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

No hazardous reactions if stored and handled as prescribed/indicated.

**Decomposition products:**

Hazardous decomposition products: carbon monoxide, Carbon dioxide, hydrochloric acid, nitrogen oxides, Prolonged thermal loading can result in products of degradation being given off., No hazardous decomposition products if stored and handled as prescribed/indicated.

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

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**Thermal decomposition:**

502.7 °F (VDI 2263, sheet 1, 1.4.1)

Possible thermal decomposition products:

carbon monoxide, Carbon dioxide, hydrochloric acid

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released.

No decomposition if stored and handled as prescribed/indicated.

**Corrosion to metals:**

Corrosive effects to metal are not anticipated.

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## 11. Toxicological information

**Acute toxicity****Oral:**

LD50/rat/male/female: > 2,200 mg/kg

No mortality was observed.

**Inhalation:**

LC50/rat: > 6.1 mg/l / 4 h

No mortality was observed.

**Dermal:**

LD50/rat: > 2,000 mg/kg

No mortality was observed.

**Skin irritation:**

rabbit: Irritating.

**Eye irritation :**

rabbit: Moderately irritating.

**Sensitization:**

guinea pig: Non-sensitizing.

**Chronic toxicity****Genetic toxicity:**

Information on: quinclorac

Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

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**Carcinogenicity:**

Information on: quinclorac

In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.

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**Reproductive toxicity:**

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*Information on: quinclorac*

*The results of animal studies gave no indication of a fertility impairing effect.*

**Developmental toxicity/teratogenicity:**

*Information on: quinclorac*

*No indications of a developmental toxic / teratogenic effect were seen in animal studies.*

**Other information:**

Misuse can be harmful to health.

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## 12. Ecological information

*Information on: quinclorac*

*Acute and prolonged toxicity to fish:*

*Rainbow trout/LC50: = > 100 ppm*

*Information on: quinclorac*

*Acute toxicity to aquatic invertebrates:*

*Daphnia magna: 113 ppm*

*Information on: quinclorac*

*Toxicity to aquatic plants:*

*algae/EC50: > 100 ppm*

*Information on: quinclorac*

*Other terrestrial non-mammals:*

*mallard duck/LC50: > 5,000 ppm*

*With high probability not acutely harmful to terrestrial organisms.*

*Honey bee/LD50: > 100 ug/bee*

*With high probability not acutely harmful to terrestrial organisms.*

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## 13. Disposal considerations

**Waste disposal of substance:**

Pesticide wastes are regulated.

Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law.

If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container disposal:**

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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### 14. Transport information

Reference Bill of Lading

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### 15. Regulatory information

#### Federal Regulations

##### **Registration status:**

TSCA, US released / exempt

**SARA hazard categories (EPCRA 311/312):** Acute, Chronic

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### 16. Other information

**Refer to product label for EPA registration number.**

Recommended use: crop protection product

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#### **Local contact information**

Product Stewardship  
919 547-2000

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