



# MATERIAL SAFETY DATA SHEET

## CASORON® 4G (1630)

Version: 1.0  
DATE OF ISSUE: 02/09/2006  
Date printed: 03/25/2006

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name :** CASORON® 4G (1630)

**Chemical name:** Dichlobenil

**Use of substance/preparation:** Herbicide

**Supplier:** Chemtura USA Corporation  
Chemtura Corporation (Worldwide HQ)  
199 Benson Road  
Middlebury, CT 06749 USA

**Emergency telephone number** CHEMTREC (24 hours) 800-424-9300  
Chemtura Corporation Emergency Response  
(24 hours) 800-292-5898  
**For additional emergency telephone numbers  
see section 16 of the Safety Data Sheet.**

**Environmental, Health and Safety Department:** 866-430-2775

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	% BY WEIGHT
2,6-Dichlorobenzonitrile CAS# 1194-65-6	4

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

NORMAL PRECAUTIONS COMMON TO SAFE MANUFACTURING PRACTICE SHOULD BE FOLLOWED IN HANDLING AND STORAGE.  
HARMFUL TO AQUATIC ORGANISMS.  
AVOID DISPERSION OF DUST IN AIR TO REDUCE POTENTIAL FOR DUST IGNITION/EXPLOSIONS.  
MAY CAUSE EYE AND SKIN IRRITATION.  
INDIVIDUALS INVOLVED IN THE MANUFACTURE OF BETHOXAZIN HAVE REPORTED SEVERE IRRITATION OF THE SKIN AND MUCOUS MEMBRANES  
SEE SECTION 11 FOR INFORMATION ON CHRONIC HEALTH EFFECTS.



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**4. FIRST AID MEASURES**

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**Swallowing**

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 do so by the poison control center or doctor.  
Do not give anything by mouth to an unconscious person.

**Skin contact**

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

**Inhalation**

Move person to fresh air.  
If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.  
Call a poison control center or doctor for further treatment advice.

**Eye contact**

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.  
Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye.  
Call a poison control center or doctor for further treatment advice.

**Notes to physician**

ROUTES OF ENTRY: Skin, Eyes, Ingestion, Inhalation

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**5. FIRE-FIGHTING MEASURES**

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**Flammable limits**

Lower limit:	Not applicable
Upper limit:	Not available

**Autoignition temperature:** > 400 °C

**Hazardous combustion products**

Irritating fumes.  
Oxides of carbon.  
Oxides of nitrogen.

**Special fire fighting procedures**

Do not discharge extinguishing waters into streams, rivers and lakes.

**Special protective equipment for firefighters**

Body covering protective clothing, full "turn-out" gear.



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Self-contained breathing apparatus.

### Extinguishing media

Suitable: - CO2  
- dry powder  
- foam  
- water fog

Unsuitable: - water spray

### Unusual fire and explosion hazards

Avoid dispersion of dust in air to reduce potential for dust ignition/explosions.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions

Wear suitable protective equipment.

### Environmental precautions

Prevent from entering sewer system, surface water or soil., May be harmful to aquatic life.

### Methods for cleaning up

Sweep up and collect in a suitable container for disposal.

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## 7. HANDLING AND STORAGE

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### HANDLING

#### Handling precautions

Avoid dust formation., Use only with adequate ventilation.

#### Other precautions

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

#### Storage requirements

Store in a cool, dry place.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE LIMIT VALUES

No other exposure limits have been established

### PERSONAL PROTECTION

#### Respiratory protection



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In case of occurrence of dust respiratory protective equipment required.

### Hand protection / protective gloves

Chemical resistant protective gloves

### Eye protection

Safety glasses with side shields.

### Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

## ENGINEERING CONTROLS

### Ventilation

Local exhaust suggested to prevent dust buildup.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

Physical state	Granular solid
Color	Gray
Odor	Aromatic
Odor threshold	Not available

### OTHER PROPERTIES

Boiling point	Not applicable
Melting point	Not available
pH	Not applicable
Specific gravity (H <sub>2</sub> O=1)	Not available
Density	Not available
Bulk density	1.2 kg/m <sup>3</sup>
Solubility in water	Not available
Solubility in organic solvents	Slightly soluble
Flash point	Not applicable
Autoignition temperature	> 400 °C
Upper explosion limits	Not available



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Lower explosion limits	Not applicable
Percent volatiles	Not available
Explosive properties	Not applicable

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## 10. STABILITY AND REACTIVITY

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**Stability:** This product is stable under normal storage and handling conditions.

### Incompatible materials

Oxidizing agents.  
Strong acids.  
Strong bases.

### Hazardous combustion products

Irritating fumes.  
Oxides of carbon.  
Oxides of nitrogen.

**Hazardous polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### SWALLOWING

#### Test results

Acute toxicity: LD50 Rat  
Result: > 5,000 mg/kg

### SKIN ABSORPTION

#### Test results

Acute toxicity: LD50 - Rabbit  
Result: > 2,000 mg/kg

### INHALATION

#### Test results

Acute toxicity: Remark: Not applicable

### SKIN CONTACT

#### Test results

Skin irritation: Species: Rabbit  
Classification: Not irritant

### EYE CONTACT



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### Test results

Eye irritation: Species: Rabbit  
Classification: Not irritant

### SENSITIZATION

Test results: Remark: Non sensitizing.

### MUTAGENICITY

Assessment Negative

### CARCINOGENICITY

Assessment Negative

### TOXICITY TO REPRODUCTION/FERTILITY

Assessment Negative

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## 12. ECOLOGICAL INFORMATION

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### AQUATIC TOXICITY

Acute toxicity fish: - LC50 -  
Result: 317 mg/l  
Exposure time: 96 h

Aquatic toxicity to plants: - IC50 - Algae  
Result: 50 mg/l  
Exposure time: 72 h

Acute toxicity to aquatic invertebrates: - EC50 - Water flea (Daphnia magna)  
Result: 155 mg/l  
Exposure time: 48 h

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## 13. DISPOSAL CONSIDERATIONS

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**General:** Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural waters.

### Non-cleaned packages

Empty drums should be decontaminated and either passed to an approved drum reconditioner or destroyed., Containers that cannot be cleaned must be treated as waste.



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### 14. TRANSPORT INFORMATION

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#### DOT Classification

This product is not regulated by DOT.

#### IMDG Classification

This product is not regulated by IMDG.

#### ICAO Classification

This product is not regulated by ICAO.

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### 15. REGULATORY INFORMATION

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**Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.**

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
2,6-Dichlorobenzonitrile	1194-65-6	4.00

**Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.**

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
2,6-Dichlorobenzonitrile	1194-65-6	4.00

#### **New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)**

Chemical name	CAS#	New Jersey TS Number
2,6-Dichlorobenzonitrile	1194-65-6	

Thickening Agent	Trade secret	CHEM900
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Proprietary Carrier	Trade secret	CHEM901
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Water	7732-18-5	
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#### **CHEMICAL INVENTORY**

Canada: All substances in this product are exempt from the DSL as this product is registered under the Pest Control Products Act., PCP# 12533, 23767

Europe: The ingredients of this product are on the EINECS inventory.

United States: This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from TSCA Inventory listing



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requirements.  
Australia: The ingredients of this product are on the AICS inventory.  
China: The ingredients of this product are on the IECSC inventory.  
Japan: The ingredients of this product are on the ENCS inventory.  
Korea: The ingredients of this product are on the ECL.  
Philippines: The ingredients of this product are on the PICCS.

### 16. OTHER INFORMATION

**RECOMMENDED USES AND RESTRICTIONS** 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.

#### FURTHER INFORMATION

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

#### Emergency Telephone Numbers

<u>Latin America:</u>	All	+44 (0)208 762 8322
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#### HMIS RATING

Health: 2	Flammability: 3 (DUST)	Reactivity: 0	PPI: X
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STP	Standard temperature and pressure
W/W	0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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