1. PRODUCT AND COMPANY IDENTIFICATION

Product name: CASORON® 4G

Chemical name: Dichlobenil

Use of substance/preparation: Herbicide

Supplier: Chemtura Corporation
199 Benson Road
Middlebury, CT 06749 USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300, 703-527-3887
Chemtura Corporation Emergency Response (24 hours) 800-292-5898

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

Prepared by Product Safety Department Date of Issue: 09/12/2008
(US) +1 866-430-2775
(EU) +44 (0) 1753.603.000
Email: MSDSRequest@chemtura.com

2. 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Dichlorobenzonitrile</td>
<td>4</td>
</tr>
<tr>
<td>CAS# 1194-65-6</td>
<td></td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are non-hazardous and/or proprietary.
4. FIRST AID MEASURES

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.

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.

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.

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

5. FIRE-FIGHTING MEASURES

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.
Self-contained breathing apparatus.

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

Unsuitable: - water spray

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

PERSONAL PROTECTION

Respiratory protection
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
10. STABILITY AND REACTIVITY

**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.

11. TOXICOLOGICAL INFORMATION

**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**
CASORON® 4G

Test results
Acute toxicity: Remark: Not applicable

SKIN CONTACT
Test results
Skin irritation: Species: Rabbit
Classification: Not irritant

EYE CONTACT
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

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY

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

- Acute toxicity to plants: - EC50 - 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

13. DISPOSAL CONSIDERATIONS

General: Dispose of in accordance with appropriate Federal, State, and local regulations. Do not discharge to sewers and natural waters.

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.
IMDG Classification

This product is not regulated by IMDG.

ICAO/IATA Classification

This product is not regulated by ICAO.

15. REGULATORY INFORMATION

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:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS#</th>
<th>Max weight %</th>
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<tbody>
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<td>1194-65-6</td>
<td>4.00</td>
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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.

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

<table>
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<tr>
<th>Chemical name</th>
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<th>New Jersey TS Number</th>
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</thead>
<tbody>
<tr>
<td>2,6-Dichlorobenzonitrile</td>
<td>1194-65-6</td>
<td>CHEM900</td>
</tr>
<tr>
<td>Thickening Agent</td>
<td>Trade secret</td>
<td>CHEM900</td>
</tr>
<tr>
<td>Proprietary Carrier</td>
<td>Trade secret</td>
<td>CHEM901</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td></td>
</tr>
</tbody>
</table>

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 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.
## HMIS RATING

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>PPI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 (DUST)</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

**Health: 2**

- **STP**: Standard temperature and pressure
- **W/W**: Weight/Weight
- **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

**THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN CHEMTURA CORPORATION. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND OF THESE OPINIONS AND THE CONDITIONS OF USE OF THIS PRODUCT ARE NOT WITHIN THE CONTROL OF CHEMTURA CORPORATION, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCTS.**