SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: CASORON CS
Product Use Description: Herbicide

Company: Chemtura Corporation
199 Benson Road
Middlebury, CT
06749
United States of America
Telephone: (US) +1 866-430-2775

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

Prepared by: Product Safety Department
(US) +1 866-430-2775
MSDSRequest@chemtura.com

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING!

Form: liquid
Colour: opaque  off-white  yellow
Odour: characteristic

Hazard Summary
May cause eye and skin irritation.
May cause sensitization by skin contact.

OSHA Hazards
TOXIC BY INHALATION.
MILD EYE IRRITANT
SENSITISER

Potential Health Effects
Symptoms of Overexposure : sensitising effects
Carcinogenicity:

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

<table>
<thead>
<tr>
<th>Component / CAS-No.</th>
<th>Weight percent</th>
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<tbody>
<tr>
<td>ammonium chloride</td>
<td>6.3 %</td>
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<tr>
<td>12125-02-9</td>
<td></td>
</tr>
<tr>
<td>dichlobenil</td>
<td>15.3 %</td>
</tr>
<tr>
<td>1194-65-6</td>
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<tr>
<td>sodium hydroxide</td>
<td>2.1198 &gt;= 1 - &lt; 5 %</td>
</tr>
<tr>
<td>1310-73-2</td>
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</table>

SECTION 4. FIRST AID MEASURES

First aid procedures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

Inhalation : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.

Skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

Eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

Ingestion : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

Notes to physician

Symptoms : sensitising effects
### Risks
- **Sensitising effects**

### Treatment
- The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

### SECTION 5. FIREFIGHTING MEASURES

#### Flammable properties
- **Flash point**: Remarks: not determined

#### Fire fighting
- **Suitable extinguishing media**: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- **Further information**: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

#### Protective equipment and precautions for firefighters
- **Specific hazards during firefighting**: No information available.
- **Special protective equipment for firefighters**: In the event of fire, wear self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions
- Use personal protective equipment. Ensure adequate ventilation.

#### Environmental precautions
- Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.

#### Methods for containment / Methods for cleaning up
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

#### Handling
- **Handling procedures**: For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Storage
Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place.
Other data: No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components / CAS-No.</th>
<th>Value / Basis / Update</th>
<th>Control parameters</th>
<th>Further information</th>
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<tr>
<td>ammonium chloride</td>
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<tr>
<td>12125-02-9</td>
<td>TWA</td>
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<td>STEL</td>
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<tr>
<td>sodium hydroxide</td>
<td>C</td>
<td>2 mg/m³</td>
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<td></td>
<td>C</td>
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<td></td>
<td>OSHA P0</td>
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<td>1989-01-19</td>
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</tbody>
</table>

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SAP 6.0  4 / 10  SDS Number: 400000003964
Engineering measures

Personal protective equipment

Eye protection: Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection: Polyvinyl alcohol or nitrile-buty1-rubber gloves
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Before removing gloves clean them with soap and water.

Skin and body protection: impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection: In the case of vapour formation use a respirator with an approved filter.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: liquid
Colour: opaque
: off-white
Odour : characteristic

Safety data
Flash point : Note: not determined
pH : 6.5 - 7.5
Vapour pressure : no data available
Density : 1.09 - 1.13 g/cm³
Water solubility : Note: dispersible
Viscosity, dynamic : 150 - 250 mPa.s

SECTION 10. STABILITY AND REACTIVITY
Conditions to avoid : Remarks: no data available
Materials to avoid : Remarks: Strong acids and oxidizing agents
Hazardous decomposition products : Note: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION
Acute oral toxicity : LD₅₀: > 5,000 mg/kg
Species: rat

Acute inhalation toxicity : LC₅₀: > 1.42 mg/l
Exposure time: 4 h
Species: rat

Acute dermal toxicity : LD₅₀: > 5,000 mg/kg
Species: rat

Skin irritation : Species: rabbit
Result: No skin irritation
Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Eye irritation : Species: rabbit
Result: Mild eye irritation
Classification: No eye irritation
Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Sensitisation

Species: guinea pig
Result: May cause sensitization by skin contact.
Remarks: Causes sensitization.

Toxicology Assessment

CMR effects

Carcinogenicity: negative
Mutagenicity: negative
Reproductive toxicity: negative

Further information

The following information is applicable to a component of this material:

no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Elimination information (persistence and degradability)

Mobility
Remarks:
no data available

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment
This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

Additional ecological information
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information
The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Empty remaining contents.
SECTION 14. TRANSPORT INFORMATION

DOT
UN number  : 3082
Description of the goods : Environmentally hazardous substances, liquid, n.o.s.
                          : (Dichlobenil)
Class  : 9
Packing group  : III
ERG Code  : 171

IATA
UN number  : 3082
Description of the goods : Environmentally hazardous substance, liquid, n.o.s.
                          : (Dichlobenil)
Class  : 9
Packing group  : III
Labels  : 9
Environmentally hazardous  : yes

IMDG
UN number  : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
                          : N.O.S.
                          : (Dichlobenil)
Class  : 9
Packing group  : III
EmS Number 1  : F-A
EmS Number 2  : S-F
Marine pollutant  : yes
                    : Dichlobenil
Environmentally hazardous  : yes
                    : Dichlobenil

SECTION 15. REGULATORY INFORMATION

OSHA Hazards  : Toxic by inhalation., Mild eye irritant, Sensitiser

CERCLA Reportable Quantity  : 646 lbs
Sara 302 Reportable Quantity  : dichlobenil 1194-65-6 100 lbs
Sara 311/312 Hazards  : Acute Health Hazard
EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

SARA 302 Reportable : 
Quantity
SARA 304 Components : This material does not contain any components with a section 304 EHS RQ.

California Prop. 65 Components : WARNING! This product contains a chemical known to the State of California to cause cancer.

naphthalene 91-20-3
naphthalene

SECTION 16. OTHER INFORMATION

Further information
HMIS Classification : Health hazard: 2
Flammability: 1
Reactivity: 0
PPI: Ask supervisor or safety specialist for handling instructions
Material Safety Data Sheet

CASORON CS

Version: 1.5
Revision Date: 10/26/2012
Print Date: 11/05/2012

NFPA Classification:
- Health hazard: 2
- Fire Hazard: 1
- Reactivity Hazard: 0

Other Emergency Phone Number

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<table>
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<tr>
<td>Latin America:</td>
<td>Brazil</td>
</tr>
<tr>
<td></td>
<td>All other countries</td>
</tr>
<tr>
<td>Mexico:</td>
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</tbody>
</table>

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