

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Embargo G
Approved Use: Herbicide
Supplier: Barclay Chemicals Manufacturing Ltd.,
Damastown Way
Damastown Industrial Park
Mulhuddart
Dublin 15
Ireland.
Telephone No: 00-353-1-8112900
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Issued By: Barclay Chemicals Ltd.

EMERGENCY TELEPHONE NUMBER: 00-353-1-8112900 (9am to 5pm)
00-353-863857769 (5pm to 9am)

2. COMPOSITION/INFORMATION ON INGREDIENTS

| No. | Name |
|-----|-------------------|
| 1. | Dichlobenil |
| 2. | Inert Ingredients |

| No. | CAS No. | EC No. | R Phrases | Concentration | Classification |
|-----|-------------|-----------|-------------|---------------|----------------|
| 1. | 001194-65-6 | 214-787-5 | R21, R51/53 | 6.75 % w/w | Xn, N |
| 2. | --- | --- | --- | --- | --- |

Legend: Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required, E = Explosive, O = Oxidising, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = skin absorption

3. HAZARDS IDENTIFICATION

Human: Harmful in contact with skin
Environmental: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

| | |
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| Inhalation: | Remove patient to fresh air. Loosen or remove clothing. Keep at rest and under observation. Take patient to a hospital having an Accident and Emergency Department immediately. |
| Skin Contact: | Remove all contaminated clothing immediately (do not re-use until laundered). Wash affected area(s) with soap and plenty of water. Seek medical advice if any irritation develops. |
| Eye Contact: | Flush with water for at least 15 minutes, holding eyelids open, if necessary. Take patient to a hospital having an Accident and Emergency Department immediately. |
| Ingestion: | If swallowed, do not induce vomiting. Seek medical advice immediately and show this safety data sheet. |
| Medical Information: | Note to Doctor: The acute toxicity of Embargo G is very low. Symptoms following high dosage could include diarrhoea and vomiting. Treatment should be symptomatic and supportive. |

5. FIRE-FIGHTING MEASURES

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| Suitable Extinguishing Media: | Water spray. Carbon dioxide. Dry chemical powder. Foam. |
| Special Hazards: | Not flammable but toxic and flammable gases will be evolved on burning |
| Protective Equipment: | Wear full protective clothing and breathing apparatus. |

6. ACCIDENTAL RELEASE MEASURES

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| Precautions: | Prevent contamination of drains, sewers, water courses and ponds. |
| Containment: | Sweep into suitable container and store in a safe place until disposal. |
| Protective equipment: | Coverall, rubber gauntlets and dust mask. |

7. HANDLING AND STORAGE

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| Handling: | Use good personal hygiene practices. Wash hands and exposed skin before eating, drinking or smoking – see precautions section. |
| Storage: | Store in a secure, cool, dry, well ventilated space away from food, drink and animal feeding stuffs. Embargo G is highly phytotoxic to buds and germinating seeds; the product should be stored well away from corms, bulbs, tubers and seeds for planting. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|---|---|
| UK Occupational Exposure Standard: | None quoted. |
| Precautions: | Wear suitable protective clothing (coveralls) and suitable protective gloves when handling the product or when applying by hand or hand-operated equipment. Wear suitable protective clothing (coveralls) during application by vehicle drawn/mounted equipment. When using do not eat, drink or smoke. Wash hands before meals and after work. Harmful to fish or other aquatic life. Do not contaminate surface waters or ditches with chemical or used container. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep in original container, tightly closed, in a safe place. Empty container completely and dispose of safely |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|-----------------------------|-------------------------------|
| Appearance: | Light brown micro granules |
| Odour: | Characteristic aromatic odour |
| Dichlobenil Content: | 6.75 % w/w |
| Particle Size: | 100% less than 1.7 mm |
| Bulk Density: | 1.1 g/ml |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Chemical Stability: | Is stable under normal conditions. |
| Conditions to Avoid: | Moisture, keep product dry. |
| Materials to Avoid: | Strong oxidising agents |
| Hazardous Decomposition Products: | Hydrogen chloride, Carbon monoxide, Nitrogen dioxide, Hydrogen cyanide, hydrocarbons and ammonia if involved in a fire. |

11. TOXICOLOGICAL INFORMATION

| | |
|--|-----------------------------|
| Acute oral (rat) LD50: | > 5000 mg/kg (calculated) |
| Skin Irritation: | Practically non irritant. |
| Skin Sensitisation: | Non-sensitising. |
| Eye Irritation: | Moderate irritant. |
| Acute Dermal rabbit LD50: | > 5000 mg/kg (calculated) |
| Carcinogenicity: | Not carcinogenic |
| Mutagenicity: | Not mutagenic. |
| Developmental/Reproductive Effects: | Not toxic for reproduction. |



12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Harmful to fish or other aquatic life
Persistence and Degradability: Slowly degrades

13. DISPOSAL CONSIDERATIONS

Follow the guidance on the disposal of pesticides as given in Part 5 of the MAFF/HSE Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings.

14. TRANSPORT INFORMATION

Not classified for Transport.

15. REGULATORY INFORMATION

Xn N

Hazard Symbol : Xn - Harmful
N - Dangerous for the Environment

R- PHRASES:

- R21** - Harmful in contact with skin.
- R50/53** -. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

S- PHRASES:

- S2** - Keep out of the reach of children.
- S36/37** - Wear suitable protective clothing and gloves
- S61** - Avoid discharge in the environment. Consult the label/safety data sheet.
- S46** - If swallowed, seek medical advice immediately and show the container or label if possible.

Refer to the Product Label for full local Regulatory Authority label precautions.

16. OTHER INFORMATION

Revision 0 Date Prepared: 04/10/06
Revision 1 Date Prepared: 11/12/06 Emergency phone number updated



Revision 2 Date Prepared: 16/03/07 First aid measures updated.

DISCLAIMER

The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.

This Material Safety Data Sheet was prepared according to Directive 2001/58/EC.