

SAFETY DATA SHEET



Product Name: **ENFORCER** Reference No: **005**

Version No.: **2** Revision Date: **April 2004** Date of Introduction:

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name ENFORCER
Common name of active ingredient Dichlorophen, sodium hydroxide
Intended use For use only as a surface biocide and horticultural herbicide
Company Identification
Scotts UK Professional
The Scotts Company (UK) Limited
Paper Mill Lane
Bramford, Ipswich Telephone **+44 (0) 1473 830 492**
Suffolk IP8 4BZ
Emergency Telephone **01865 407333 (24hr)**

2. COMPOSITION / INFORMATION ON INGREDIENTS

NPK: Not applicable

Chemical Characterisation A chlorophenol fungicide and mosskiller. An aqueous solution containing 360g/l of dichlorophen.

| <u>Chemical name</u> | <u>CAS-No</u> | <u>EINECS/ELINCS</u> | <u>Classification</u> | <u>Concentration</u> |
|----------------------|---------------|----------------------|-----------------------------|----------------------|
| Dichlorophen | 0097-23-4 | 202-567-1 | Xn: R22, Xi: R36, N: R50,53 | 30%w/w |
| Sodium hydroxide | 1310-73-2 | 215-185-5 | C: R35 | 8.6%w/w |

3. HAZARDS IDENTIFICATION

Physicochemical: Not classified

Health:

Ingestion Harmful if swallowed

Eye / skin contact Causes burns



CORROSIVE

Environmental:



DANGEROUS FOR THE ENVIRONMENT

TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

4. FIRST AID MEASURES

Inhalation Remove patient from exposure ensuring one's own safety whilst doing so. If unconscious check for breathing and apply artificial respiration if necessary. If unconscious and breathing is ok, place in the recovery position. If conscious, ensure the patient sits or lies down. If breathing becomes bubbly, have the patient sit and provide oxygen if available. Transfer to hospital as soon as possible

Skin contact Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion Do not induce vomiting. If conscious, give 1 pint of water to drink immediately. If unconscious check for breathing and apply artificial respiration if necessary. If unconscious and breathing is ok, place in the recovery position. Transfer to hospital as soon as possible.

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| 5. FIRE FIGHTING MEASURES | |
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| Extinguishing media | Carbon dioxide, water spray. |
| Extinguishing media to avoid | Strong water jet. |
| Special exposure hazards | Combustion or thermal decomposition will evolve toxic and irritant vapours. |
| Protective equipment | Self-contained breathing apparatus and suitable protective clothing to protect skin and eyes. |
| Further information | Prevent fire water run off from entering water courses or drains. |

| 6. ACCIDENTAL RELEASE MEASURES | |
|---------------------------------------|--|
| Methods for cleaning up | <p>Wear suitable personal protection (see section 8).</p> <p>Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.</p> <p>Contain the spillage using bunding. Do not discharge into rivers or streams. If this cannot be avoided the appropriate authorities should be informed.</p> <p>Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method (see also section 13). Wash the spillage site with large amounts of water.</p> |
| Environmental considerations | Dangerous for the environment. Spillages or uncontrolled discharge must be alerted to the appropriate regulatory body. |

| 7. HANDLING & STORAGE | |
|----------------------------------|---|
| Advice on safe handling | Ensure there is sufficient ventilation of the area. Avoid direct contact with the product. |
| Storage conditions | <p>Store in cool, well ventilated area.</p> <p>Keep in original container, tightly closed, in a safe place.</p> <p>Keep away from food, drink and animal feeding stuffs.</p> <p>Keep out of reach of children</p> |
| Shelf life | Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures. |

| 8. EXPOSURE CONTROLS / PERSONAL PROTECTION | |
|---|--|
| Exposure controls | Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls. |
| Engineering controls | Ensure adequate ventilation of working area. |
| Personal protection | <p>Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.</p> <p>Wear suitable protective clothing (Coveralls) suitable protective gloves, rubber boots and face protection (faceshield) when handling the concentrate.</p> <p>Wear suitable protective clothing (coveralls) suitable protective gloves, rubber boots and face protection (faceshield) when applying by hand-held equipment.</p> <p>However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.</p> <p>In case of accidental spillage of bulk product, wear personal protective equipment appropriate to the task (see below)</p> |
| Eye protection | Faceshield, BSEN1663F (minimum) |
| Skin protection | Nitrile gloves, BSEN374 |
| Respiratory protection | Respiratory protection, if ventilation is insufficient, EN149:2001FFP3. |
| Other protection | Protective overall and rubber boots. |

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| 9. PHYSICAL & CHEMICAL PROPERTIES | |
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| Physical form | Liquid |
| Colour | Red-brown |
| Odour | Phenolic |
| pH | ~13 |
| Boiling pt / range | Not available |
| Flash point | Not applicable |
| Flammability | Not available |
| Relative density | 1200 to 1230kg/m ³ |
| Water solubility | Miscible |

| 10. STABILITY & REACTIVITY | |
|---|-------------------------------------|
| Stability | Stable under normal conditions. |
| Material to avoid | Zinc. Aluminium. |
| Hazardous decomposition products | Hydrogen chloride, carbon monoxide. |

| 11. TOXICOLOGICAL INFORMATION | |
|--------------------------------------|-----------------------------------|
| Acute toxicity | No data available for the product |
| Further information | None |

| 12. ECOLOGICAL INFORMATION | |
|-----------------------------------|-----------------------------------|
| Acute toxicity | No data available for the product |
| Further information | None |

| 13. DISPOSAL CONSIDERATIONS | |
|--|--|
| User | Empty containers should not be used for other purposes. Do not contaminate ponds, waterways or ditches with chemical or used containers. Dispose of product concentrate, diluted product and empty containers according to the Code of Practice for the Use of Approved Pesticides in Amenity and Industrial Areas (NAAC/NTC). |
| Surplus bulk product / spillage | In accordance with national and local authority regulations, e.g. special waste (e.g. Special Waste Regulations) or incineration, after consultation with the operator. |

| 14. TRANSPORT INFORMATION | | |
|----------------------------------|-----------------------|---------------------------|
| ADR / RID | UN No: | 1824 |
| | ADR Class: | 8 |
| | Hazard ID No: | 80 |
| | Labelling: | 8 |
| | Proper Shipping Name: | SODIUM HYDROXIDE SOLUTION |
| IMDG / IMO | UN No: | 1824 |
| | Class: | 8 |
| | Packing Group: | II |
| | EmS: | F-A, S-B |
| IATA / IACO | UN No: | 1824 |
| | Class: | 8 |
| | Packing group: | II |
| | Packing Instructions: | 809 |
| | Quantity: | 30L |

15. REGULATORY INFORMATION

Classification & labelling

This Safety Data Sheet does not form part of the label approved under the Control of Pesticide Regulations 1986.

To avoid risks to man and the environment, comply with the instructions for use.



DANGEROUS FOR THE ENVIRONMENT



CORROSIVE

Registration no.

MAFF 09288

Risk phrases

R22: HARMFUL IF SWALLOWED.

R35: CAUSES SEVERE BURNS

R50/53: VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

Safety phrases / precautions (from the label)

Do not breathe spray

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After contact with skin, wash immediately with plenty of water.

Wear suitable protective clothing, gloves and eye/face protection.

In case of insufficient ventilation wear suitable respiratory equipment.

In case of accident or if you feel unwell seek medical advice immediately (show label where possible).

This material and its container must be disposed of as hazardous waste.

Avoid release to the environment. Refer to special instruction/safety data sheets.

Operator protection

Avoid all contact with skin

Avoid excessive contamination of coveralls and launder regularly

Take off immediately all contaminated clothing.

When using do not eat, drink or smoke.

Wash hands and exposed skin before eating, smoking and after use.

Wash splashes from skin and eyes immediately.

Ventilate treated rooms thoroughly before occupying.

Keep out of reach of children.

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.

Wear suitable protective clothing (Coveralls) suitable protective gloves, rubber boots and face protection (faceshield) when handling the concentrate.

Wear suitable protective clothing (coveralls) suitable protective gloves, rubber boots and face protection (faceshield) when applying by hand-held equipment.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

Consumer protection

Unprotected persons and animals should be kept away from treated areas for 48 hours after treatment or until spray is dry.

Environmental protection

Do not contaminate surface water or ditches with chemical or used container.

Prevent any surface run-off from entering storm drains.

Remove/cover water storage tanks before application

Storage and disposal

Keep away from food, drink and animal feeding stuffs.

Wash out container thoroughly and dispose of safely.

Keep in original container, tightly closed, in a safe place.

16. OTHER INFORMATION

Further information The Control of Substances Hazardous to Health Regulations (COSHH) may be applicable to the use of this product.

Risk phrases referred to in section 2 for composite ingredients.

R22: Harmful if swallowed.

R35: Causes severe burns

R36: Irritating to eyes

R50,53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

For further advice authorised persons (e.g. doctor) may contact the National Poisons Information Service Centre:

UK National number: 0870 600 6266

Eire (Dublin) 00 3531 8379964 or 00 3531 8379966

Sources of data EH40/2002 and other suppliers' safety data sheets

Date of issue April 2004

The information on this sheet is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product.

It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.