

# SAFETY DATA SHEET



Product Name: **PATHCLEAR 3** Reference No: **387**

Version No.: **1** Revision Date: **-** Date of Introduction: **September 2004**

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

**Product Name** PATHCLEAR 3  
**Common name of active ingredient** 2,4-D. Amitrole. Diuron  
**Intended use** For use only as a Home Garden Weedkiller  
**Company Identification**  
**Consumer Business Group**  
**The Scotts Company (UK) Limited**  
**Salisbury House**  
**Weyside Park, Catteshall Lane** Telephone **+44 (0) 1483 410210**  
**Godalming, Surrey GU7 1XE**  
**Emergency Telephone** **01865 407333 (24hr)**

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**NPK:** Not applicable

### Chemical Characterisation

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
2,4-D	94-75-7	607-039-00-8	Xn: R22, R37, R41, R43, R52/53	14.0%
Amitrole	61-82-5	613-011-00-6	Carc.Cat3: R40, R48/22, R51/53	28%
Diuron	330-54-1	006-015-00-9	Carc.Cat3:R40, R22,R48/22, R50/53	46.7%

## 3. HAZARDS IDENTIFICATION

### Health:

**General** Limited evidence of a carcinogenic effect.  
**Ingestion** Harmful if swallowed.  
Harmful: danger of serious damage to health by prolonged exposure if swallowed  
**Eye contact** Risk of serious damage to eyes.  
**Skin contact** May cause sensitisation by skin contact.  
**Inhalation** Irritating to respiratory system.

**Environmental:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

## 4. FIRST AID MEASURES

**General information** Treat symptomatically.  
**Inhalation** Remove patient to fresh air until recovered.  
Administer oxygen or artificial respiration if patient has difficulty breathing. Seek medical attention.  
**Skin contact** Remove contaminated clothing and launder before re-use.  
Wash affected area with soap and water.  
Seek medical attention if there are persistent problems.  
**Eye contact** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Ingestion** If swallowed seek medical advice immediately and show the container, label or safety data sheet.

**5. FIRE FIGHTING MEASURES**

<b>General hazard</b>	Non-flammable
<b>Extinguishing media</b>	Water spray, carbon dioxide, alcohol resistant foam, dry powder.
<b>Extinguishing media to avoid</b>	Strong water jet.
<b>Special exposure hazards</b>	In case of fire the evolution of toxic gases is possible.
<b>Protective equipment</b>	Suitable protective clothing and self-contained breathing apparatus.
<b>Further information</b>	Contain fire-fighting water by bunding area with sand or earth.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Methods for cleaning up</b>	Wear personal protective equipment (see section 8). Avoid contact with skin and eyes. Do not breathe dust. Collect contaminated material into labelled containers. Dispose of through a reputable waste disposal contractor (see also section 13).
<b>Environmental considerations</b>	Do not allow to enter drains or water courses. In the event of spillage's into rivers or drains, inform the local water services company and the Environment Agency or other relevant authorities.

**7. HANDLING & STORAGE**

<b>Advice on safe handling</b>	Wear suitable protective clothing and gloves. Do not eat, drink or smoke when handling the product. Avoid inhaling fumes or spray mist. Wash hands immediately after use. Thoroughly clean equipment after use.
<b>Storage conditions</b>	Store in cool well ventilated areas. Keep only in the original container, tightly closed, in a safe place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure controls</b>	Monitoring of the workplace should be considered in accordance with EH40 (or equivalent) controls. LTEL (8 hour TWA): 10mg/m <sup>3</sup> 2,4-D 10mg/m <sup>3</sup> Diuron STEL (15 min): 20mg/m <sup>3</sup> 2,4-D
<b>Personal protection</b>	Observe normal standards for handling chemicals. <b>In case of accidental spillage of bulk product, wear personal protective equipment appropriate to the task (see below)</b>
<b>Eye protection</b>	Faceshield, e.g. BSEN1664F
<b>Skin protection</b>	Nitrile or rubber gloves
<b>Respiratory protection</b>	Respirator, e.g. EN149:2001FFP3
<b>Other protection</b>	Protective overall and rubber boots.

**9. PHYSICAL & CHEMICAL PROPERTIES**

<b>Physical form</b>	Free flowing powder
<b>Odour</b>	Faint amine
<b>pH</b>	Not available
<b>Boiling pt / range</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Oxidising properties</b>	Not oxidising
<b>Octanol/water co-efficient</b>	Log Pow = -2.85 (25C, diuron) Log Pow = -0.969, pH 7 (amitrole) Log Pow = 0.04 – 0.33, pH5 (2,4-D)
<b>Flammability</b>	Not flammable
<b>Bulk density</b>	Approximately 520kg/m <sup>3</sup>
<b>Water solubility</b>	Suspendable in water
<b>Additional information</b>	None

**10. STABILITY & REACTIVITY**

<b>Stability</b>	Product is stable if stored and used as directed.
<b>Material to avoid</b>	Hydrolysed by acids and alkalies.
<b>Hazardous decomposition products</b>	Thermal decomposition may include toxic oxides of carbon and nitrogen.
<b>Further information</b>	None

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	LD <sub>50</sub> Oral	Rat	3400mg/kg	Diuron
	LD <sub>50</sub> Oral	Rat	486mg/kg	2,4-D (as acid)
	LD <sub>50</sub> Oral	Rat	>10000mg/kg	Amitrole
	LD <sub>50</sub> Dermal	Rat	>2000mg/kg	Diuron
	LD <sub>50</sub> Dermal	Rat	>2500mg/kg	2,4-D (as acid)
	LD <sub>50</sub> Dermal	Rat	>2000mg/kg	Amitrole
	LC <sub>50</sub> Inhalation	Rat	>5mg/l	Diuron
	LC <sub>50</sub> Inhalation (4hr)	Rat	>439mg/l	2,4-D (as acid)
	LC <sub>50</sub> Inhalation (4hr)	Rat	1.79mg/l	Amitrole
<b>Irritation</b>	Risk of serious damage to eyes. Not irritating to skin.			
<b>Sensitisation</b>	Not sensitising to skin.			
<b>Further information</b>	The formulation is classified by the EEC as a category 3 carcinogen: substances which cause concern for humans owing to possible carcinogenic effects but in respect of which the available information is not adequate for making a satisfactory assessment.			

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	LC <sub>50</sub> (96hr)	Rainbow trout	5.6mg/l	Diuron
	EC <sub>50</sub> (48hr)	Daphnia	12mg/l	Diuron
	LC <sub>50</sub> (8 day)	Japanese quail	>5000mg/kg diet	Diuron
	Not toxic to bees: Diuron			
	LC <sub>50</sub> (96hr)	Fish	100mg/l	2,4-D (as acid)
	EC <sub>50</sub> (96hr)	Algae	24.2mg/l	2,4-D (as acid)
	EC <sub>50</sub> (48 hr)	Daphnia	100mg/l	2,4-D (as acid)
	Toxicity to birds	Mallard duck	>500mg/kg	2,4-D (as acid)
	Not toxic to bees: 2,4-D (as acid)			
	LC <sub>50</sub> (96hr)	Rainbow trout	>1000mg/l	Amitrole
	EC <sub>50</sub> (72hr)	Algae	2.3mg/l	Amitrole
	EC <sub>50</sub> (48hr)	Daphnia	~6mg/l	Amitrole
LD <sub>50</sub>	Bobwhite quail	>2150mg/l	Amitrole	
Not toxic to bees: Amitrole				
<b>Biological degradability</b>	No bioaccumulation			
	DT <sub>50</sub> , soil	90 – 180 days	Diuron	
		2-20 days	Amitrole	
		<7 days	2,4-D	

**13. DISPOSAL CONSIDERATIONS**

<b>User</b>	Empty sachets thoroughly and dispose of safely. Do not contaminate ponds or streams with chemical or used container.
<b>Surplus bulk product / spillage</b>	In accordance with national and local authority regulations, e.g. special waste (e.g. Special Waste Regulations) or incineration, after consultation with the operator. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

**14. TRANSPORT INFORMATION**

<b>Special Transport</b>	Marine Pollutant
<b>Road classification</b>	ADR/RID – UN3077 Environmentally Hazardous Substance, solid, n.o.s. (contains diuron 46.7%, amitrole 28%, 2,4-D 14%) Class 3 Packing Group III
<b>Maritime classification</b>	IMDG – UN3077 Environmentally Hazardous Substance, solid, n.o.s. (contains diuron 46.7%, amitrole 28%, 2,4-D 14%) Class 3 Packing Group III
<b>Air classification</b>	ICAO/IATA - UN3077 Environmentally Hazardous Substance, solid, n.o.s. (contains diuron 46.7%, amitrole 28%, 2,4-D 14%) Class 3 Packing Group III

## 15. REGULATORY INFORMATION

## Classification &amp; 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.



HARMFUL

DANGEROUS  
FOR THE  
ENVIRONMENT

## Current registration no.

UK: 12150

EIRE: TBC

## Risk phrases

HARMFUL IF SWALLOWED. IRRITATING TO RESPIRATORY SYSTEM  
RISK OF SERIOUS DAMAGE TO EYES. MAY CAUSE SENSITISATION BY SKIN CONTACT  
HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE IF SWALLOWED.  
VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

## Safety phrases / precautions

KEEP OFF SKIN. WASH HANDS AND EXPOSED SKIN AFTER USE.  
KEEP AWAY FROM CHILDREN AND PETS.  
DO NOT CONTAMINATE PONDS OR STREAMS with chemical or used container.  
KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.  
APPLY ONLY BY WATERING CAN.  
WASH OFF SPLASHES IMMEDIATELY.  
DO NOT BREATHE DUST.  
EMPTY SACHET THOROUGHLY and dispose of safely.  
Keep out of reach of children  
Avoid contact with eyes and skin  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
Wear suitable protective clothing and gloves  
If swallowed seek medical advice immediately and show this container or label.  
Do not empty into drains

## 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

R37: Irritating to respiratory system

R40: Limited evidence of a carcinogenic effect

R41: Risk of serious damage to eyes

R43: May cause sensitisation by skin contact

R48/22: Harmful: Danger of serious damage to health by prolonged exposure if swallowed.

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

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53: Harmful 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

September 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.